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#### ABSTRACT

A strong library and information network is important to Wisconsin because of the uneven geographic distribution of its population, the dispersion of its university resource centers and heavy concentration of book and other information resources in major cities. This report explores the potential for furthering interlibrary cooperation in Wisconsin by investigating various ways of linking the state's library systems with other information centers into a network. The plan has four main objectives: (1) promote increased sharing of resources by libraries, (2) use modern technology in an appropriate and economical manner to facilitate the distribution of information, (3) equalize the availability of library materials, and (4) create a comprehensive base of library and information materials with a minimum of duplication and processing. The network proposed is constructed of groups of libraries and information centers operating as a consortium without limitation on the nature of their local jurisdictions. The report is divided into three main sections: (1) network philosophy and concept, (2) the library environment in Wisconsin, and (3) development and program plan for a Wisconsin Library and Information Network. (NH)



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# A PLAN FOR A WISCONSIN LIBRARY AND INFORMATION NETWORK: KNOWLEDGE NETWORK OF WISCONSIN

Division for Library Services
Wisconsin Dept. of Public Instruction
Hadison, Wisconsin
1970



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# P.R.E.F.A.C.E

This report was commissioned by the Division for Library Services, Department of Public Instruction, State of Wisconsin. Its purpose is to explore the potential for furthering interlibrary cooperation in the State of Wisconsin by investigating various ways of linking the library systems in the State with other information centers into a network.

The intent of a statewide library network plan for Wisconsin is to achieve four main objectives:

- To promote increased sharing of resources by libraries, particularly libraries of different kinds and with different area jurisdictions.
- 2. To use modern technology in an appropriate, economic manner and, by doing so, to facilitate the distribution of all forms of information to those persons motivated to seek it.
- 3. To equalize the availability of library materials, information, and other knowledge resources to each resident of the State regardless of his geographic location.
- 4. To create a comprehensive base of library materials and information in the State with a minimum of duplication and processing.



Briefly, the Wisconsin Library and Information

Network proposed by Becker and Hayes is constructed of groups
of libraries and information centers operating as a consortium,
without limitation on the nature of their local jurisdictions,
The State is divided into geographic areas which constitute the
first level of organization. Within each area, a dominant
library is identified to be a group center. Through a Stateoperated Technical Processing and Catalog Production Center,
directories of holdings are prepared for network members within
each area. The aim here is to facilitate the sharing of
resources where it is possible to do so without going outside
the group. Directories of holdings of other areas makes it
possible for any area to identify information resources in
the State which are not available locally.

The Catalog Production Center may also perform other technical processing activities as required. And, a Central Switching Center provides referral services for requests that can only be satisfied by tapping major State or national resources. Telecommunications equipment is used at each network level commensurate with local information needs and dictated by the communication traffic requirements of that level.

Overall authority and direction for the network rests with a newly proposed Information Network Office in the Division for Library Services, Department of Public Instruction.

This Office assigns resconsibilities to each network member



and generates the necessary network protocols that are required.

Wisconsin has had a long and enviable history of interlibrary cooperation. Networks, by their very nature, however, require a more formal organization and the consummation of commitments which go far beyond the informal arrangements practiced in the past. A future, successful network in Wisconsin depends on the ability of the Division for Library Services to make evident the benefits of resource sharing to all prospective participants and users, and to provide professional leadership to make the Network Program a vital part of State and local Government.

In addition, the Director of the proposed Wisconsin Library and Information Network will need to apply the basic principles of "social engineering" tactfully and wisely. A network is built initially on the motivation of people to want to make it work. Also, sufficient funds must be available for the Network's continuing support in order to spur its development, plan its implementation, and facilitate its continuing operation. Commitments of people and adequate financing are thus crucial to network success. Other ingredients to success include a workable organizational structure, sound leadership, a willingness on the part of participants to accept certain common standards and practices, and the accessibility of communication facilities that will provide the essential information transfer between and among network users and operators.



Based on our work in Wisconsin, we are convinced that the spirit among professionals in favor of network development is high and that to desire to make the network concept a reality is genuine.

Wherever we went in the State, we were greeted with great cordiality and cooperation. For this we are most grateful and wish to thank the many professional librarians, administrators, information scientists, and others who took time from their busy schedules to help inform and guide us.

Special thanks to Lyle Eberhart, Director of the Division for Library Services, to Richard Lederer, Mr. Eberhart's able administrative assistant, and to Jean Legg who served as project advisor for a ten month period. Dr. Louis Kaplan, Director of Libraries, University of Wisconsin, served as a reliable sounding board for our ideas and we wish to express our gratitude to him also.

During the course of the study, several special reports were prepared for the Division in response to specific requests for information. The essence of these reports, which dealt mainly with the requirements of a centralized processing service for Wisconsin, have been incorporated into this final report.

Joseph Becker
Robert H. Hayes



# I. NETWORK PHILOSOPHY AND CONCEPT

Wisconsin is vitally concerned with the need to optimize the availability of its library and information resources for the personal benefit of the residents of the State and its own growth and prosperity. It also recognizes that this goal can only be achieved through the establishment of an effective program of information transfer within the State. This Report sets forth an implementation plan for strengthening the information communication process in Wisconsin by creating a permanent organization to encourage the development of interinstitutional communication among all types of libraries and information centers. The plan implies establishment of a Wisconsin Library and Information Network and outlines the steps for its systematic growth.

Interinstitutional communication refers to the exchange of information and ideas among information units in Wisconsin as they serve their varied functional roles. Although the means and practices of information communication have undergone change in the past few centuries, the full and open communication of information to the public and private sectors remains the keystone of modern community progress.

A strong library and information network is important to Wisconsin because of the uneven geographic distribution of its population, the dispersion of its university resource centers, and the heavy concentration of book and other information resources in major cities.



The concept of a Wisconsin Library and Information

Network involves the co-joining of general and specialized information resource centers throughout the State with the system of public, academic, and school libraries. This co-joining
first takes the form of a formal organization in which these
institutions agree to certain common programs; later, the introduction of a telecommunications system facilitates the communication of information and materials among them. The purpose of
the Network is to permit any Wisconsin researcher, scholar, resident or businessman in government, industry, or the private sector access to the total information resources of the State from
his own physical location. A collateral purpose is to evolve
cooperative programs among information and library activities in
the State which are both homogeneous and non-duplicative.

A Wisconsin Library and Information Network has several related objectives:

- a) To systematically develop specialized information services as part of a planned program of network development,
- b) To establish common practices, standards, and cooperative bibliographic tools, among the major State resources and the secondary information units in the State,
- c) To interconnect the principal information activities in the State through a common telecommunications



- system in order to facilitate the rapid exchange of graphic, printed, and other data,
- d) To expand Network membership by permitting new activities to join the Network as they demonstrate the strength of their own resources, and their ability to contribute to the total good,
- e) To provide open access to the Network by individuals anywhere in the State for personal, educational, or business reasons,
- f) To communicate, externally, with similar networks in other states and with national information resources,
- g) To make optimum use of advanced technology for information transfer purposes.

By developing a statewide network, the State of Wisconsin will accrue certain definite advantages:

- a) It will achieve a greater sharing of information resources among people and organizations in the State.
- b) It will reduce duplication of information services and information collections.
- c) It will generate increased interdependence among libraries and information activities and organizations within the State.
- d) It will permit information exchange to occur through telecommunications and thereby reduce personal travel.



- e) It will equalize the level of information available to any one area or any person in the State.
- f) Through systematic access to world-wide and national information sources, it will reduce the amount of duplicative research, thereby facilitating the application of Wisconsin resources to unsolved Wisconsin problems.

The proposed network, described in detail in the sections that follow, is composed of a variety of components including:

- Wisconsin universities, State libraries and public libraries with strong resources and staffs - the major State resources.
- Wisconsin specialized information centers with exceptional information resources in one or another subject field e.g. medicine, law, etc.
- 3. A central network administrative office to direct and manage all planning operations.
- 4. A telecommunications component to provide for the exchange of data between and among all network members.
- 5. A group of common service centers to provide centralized technical processing, book catalog production, mechanized information services, and online bibliographic access.



The individual libraries of the State serve as the primary building blocks in the system. (Figure 1.) From them, a number of cooperative groups can be formed. The most evident kinds of groups are those in geographical areas. These may be, in actuality, the eight state districts proposed in the report, A Wisconsin System of Uniform State Districts, as shown in Figure 2. Equally important are specialty groups such as those formed by medical, law, industrial, and educational media libraries. These groups may be formed as a result of requirements for service to specialized constituencies or for performing special services. Centralized operations would draw upon major State and national resources in order to serve individual libraries as well as geographical area centers and specialty groups within the State.

The network is actually constructed by creating a formal organization - The Wisconsin Library and Information Network-to establish contractual agreements among the nodes of the network to share their resources, develop common bibliographic tools, and make arrangements for the provision of certain mutually desirable information and processing services. Such agreements may call for the following commitments on the part of each member:

A commitment to make its collection and services available to the constituencies served by other network members on the same basis of service that it provides to its own constituency.



<sup>\*</sup>A Wisconsin System of Uniform State Districts, Final Report of the Operating Cabinet Working Committee on Uniform Districting, July, 1969.

Indexing Major Federal Professional Commercial National Libraries Societies Services Services Resources Wisconsin Reference and Loan Major Legislative Milwaukee University State State State Reference Historical Low Public of Resources Wisconsin Library (Madison) Bureau Society Library Library (Madison) (Madison) (Madison) Technical. Bibliographic Centralized Processing and Services . Center Switching Center Geographical Northwest West Central West Northeast Central East Central South Southeast Specialty D istrict Area Group District District District District. District District. District Groups and Specialty **Group Centers** Individual Libraries Reader Service **Points** 

Figure 1: Components in Wisconsin's Knowledge Network



(established by Governor's Executive Order August 31, 1970)

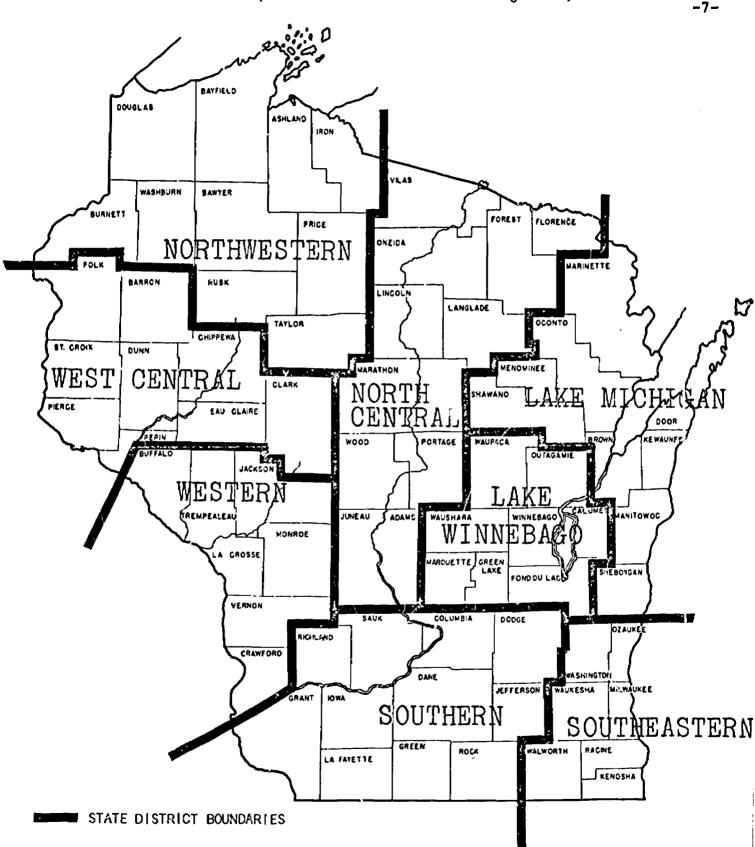


Figure 2: Recommended state districts to serve as Geographic Area Groups



- A commitment to maintain an agreed-upon level of service (such as the level of the book budget for new acquisitions, the size of the reference staff, the willingness to participate in a union catalog for the network, etc.)
- A commitment to pay its proportionate share for the preparation of union catalogs, maintenance of telecommunications equipment, etc.
- A commitment to augment its collection so that it will support that part of network for which it is assigned primary responsibility.

The membership principles that govern the implementation of the network include:

- The network will have three types of members: 1)
  major State resource centers with a recognized
  critical mass of information, competence, and
  materials; 2) specialized information centers with
  in-depth resources in certain fields; and 3) the
  sets of public, school, special, and academic
  libraries in Wisconsin.
- The network will admit new members if their added resources complement the system and make it more complete.
- The network will have at least one dominant node in each of the principal areas of the State in order to provide access points for users located in that area.



- Any network member in each of the areas will use the State telecommunications system or dial-up commercial services to tap the resources of any other member regardless of its location in Wisconsin.
- Membership affiliation in the network will be by contract in which each member agrees to give and receive services according to an established method of payment and reimbursement.
- A field representative will be named at each node of the network to serve as a local liaison person.
- Network members will send their field representatives to semi-annual advisory group meetings to discuss aspects of network operations and future plans.
- The network will accommodate information regardless of form or type.
- The network will serve any resident of the State who is motivated to use it.

The two main sections which follow this introduction are designed to (1) provide historical perspective on past Wisconsin programs of interlibrary cooperation and (2) set forth an implementation and program plan for the development of the Wisconsin Library and Information Network (Knowledge Network).



## II. THE LIBRARY ENVIRONMENT IN WISCONSIN

# RECOMMENDATIONS FROM PREVIOUS WISCONSIN STUDIES

The present plan for a Wisconsin Library and Information Network, though more broadly conceived and more ambitious in scope than previous studies, should be seen as the culmination of the efforts by Wisconsin's librarians, trustees, boards of directors and interested citizens to develop a Statewide library system that widens and quickens access to the information resources of the State. In re-examining the results of the major studies that have been authorized and carried out during the past 10 years, increasing support for centralized system development and resource sharing can be seen.

Early Studies - The Free Library Commission Reports

Two important public library studies were sponsored by the Free Library Commission in the early 1960's. Facing the 60's appeared in 1961 after a Statewide investigation of public library service that was conducted by the University of Wisconsin's Bureau of Government. The report included recommendations for increased emphasis on the educational role of libraries, increased library cooperation at State and local levels, creation of regional service centers and strengthened reference and loan units within the Free Library Commission.

In 1962, the joint effort of more than 100 librarians and board members in the State resulted in the publication of



A Design for Library Development in Wisconsin: Standards for Measuring Progress. It was this publication that first recommended dividing the State into seven major areas, each headed by one large central library.

## The Middle 60's

The first library network study for Wisconsin was prepared by Guy Garrison in 1964. Entitled, A Statewide Reference Network for Wisconsin Libraries, the study focused on reference work in public libraries. The two-level network proposed was to consist of 7 regions, each having a central reference library. At one level, member libraries in each region would be connected to their central library by toll-free telephone lines. At the second level, all the central libraries would be connected to a State Reference Library by several media-telephone, teletype, etc. Garrison wanted the required boundaries and the communications links to remain flexible so that the system could be expanded to include centralized book processing.

As part of his study, Garrison prepared a checklist of basic reference books and compared it against the holdings of selected public and academic libraries in Wisconsin. He found that the libraries selected were deficient in reference and bibliographic tools and that enhancement of the collections, especially in libraries selected to be central reference points, would be necessary. The location of major research libraries



was thought to be limited to the Madison-Milwaukee area until the reference collections at other library locations could be appropriately reinforced. Finally, Garrison suggested that the State's informal arrangements with university libraries for interlibrary loan and reference services should be standardized and on a contract basis.

A general plan for library development was proposed by the Wisconsin Department of Resource Development and the Wisconsin Library Commission in the 1965 report, <u>Public Library Facilities</u>. The report surveyed existing public library facilities in the State and prepared the plan specifically to serve as a first step - a point of departure from which more concrete plans could be developed.

In the plan, 9 regions would comprise the State network. Each was to be headed by a large central library to be designated an "area resource center." Small and mediumsized libraries located throughout a region would be connected to the area resource center by a network of open-line telephones. The resource centers would be interconnected by teletype, telephone and mail service. In this way, all library materials would be made available to the entire State population through interlibrary loan and reference services. This plan departed from others in that it did not propose a central switching agency for the State; each area resource center would direct its communications outside the region in the way it felt to be most efficient by referring to a State union catalog.



In order to elevate the existing facilities to the quality requirements of the proposed regional network, the report showed that capital expenditures of over \$30,000,000 would be required to meet the 1980 needs for floor space alone, while operating expenditures would nearly double (to over \$14,000,000 per year) to correct deficiencies in bookstock, personnel and services. The increased expenditures would be absorbed through a combination of increased State and local taxes. Local taxes would go to support the local-regional system, and State tax monies would go to larger undertakings, (such as a Statewide teletype network) and to ensure that minimum library service would be available to all. The report indicated that Federal LSCA monies would be only a token source with respect to the total need.

## Recent Studies

In 1968, the Wisconsin Library Association issued its report, Public Library System Development for Wisconsin: An Action Program. In the report the public library system was defined as "---the basic unit of public organization within which community libraries and a headquarters library function as effective arms." The headquarters library was seen to be the location of a comprehensive collection of books, reference books and other library materials.

Two other topics covered in the WLA report were professional services and library networks. The gaps in professional service were said to be caused by the scarcity of



specialized staff. In-service education and training were recommended to upgrade the qualifications of professional librarians.

In the long discussion of library networks, a State-wide network was seen as mandated by statute to bring about "---increased opportunities for reading, study, and free inquiry" for all citizens of the State. The report suggested that public libraries develop a Statewide communication system in order to most efficiently organize the State's library resources toward these goals. Continued and increased local, State, and Federal support would then be necessary to make the recommended broad base of materials and services available to every citizen of the State.

The report went on to specify the structure, operating method and reporting system of the State library structure. Some other parameters were also suggested: A library system must serve at least 100,000 people. A public library system may organize a federated or centralized system. Each public library system should have a governing body appointed by the local County Board (s) of Supervisors. An annual report should be submitted to the Division for Library Services by each public library system of the State.

A 1969 study by Charles Bunge (Library Cooperation for the Madison Area) was concerned with the need for cooperative programs - including resources, services and policies.

Public, college, and school libraries in the Madison area were



selected to participate in a questionnaire/survey. The interviews were conducted on a sample of each library's patronage. The various needs and opinions were compiled in order to describe aggregate user search strategy and to estimate unmet information needs. Interviews with library administrators were used to measure and compile the need for specific cooperative efforts.

Bunge strongly recommended that an exchange of bibliographic information be intitiated among the area libraries. A union list of periodicals was suggested as a possible first effort. The establishment of a clearinghouse to collect information on the services and content of the numerous information sources (libraries, non-libraries, and even individuals) in the Madison area was also recommended. The proposed clearinghouse was also seen as a switching center for the area network.

A cooperative periodicals center was proposed to house the less frequently used and more specialized titles so that individual libraries could devote more of their periodicals budget to heavily used titles.

The purpose of a 1969 study by James Krikelas

(Centralized Technical Processing for Public Libraries in

Wisconsin) was to determine the feasibility of establishing one
or more centralized technical processing centers for the State's
public libraries.



The results of a questionnaire sent to more than 300 public libraries in the State showed that the majority of librarians surveyed supported the idea of centralized processing. There was some doubt, however, as to the economic and administrative feasibility of such a venture.

When Krikelas examined the economics of technical processing he found evidence that the physical preparation of books might be more economical if done locally. Cost data for centralized cataloging were inconclusive but, again, local handling was indicated.

The survey seemed to indicate a high probability that a centralized processing center would not have enough volume to be economical. The author concluded that, although the results seemed totally negative, the State Division for Library Services should experiment with production and dissemination of printed catalog cards specifically for public libraries. Kirkelas also took a dim view of book processing by commercial firms because he believed that they are not as interested in adhering to requests of specific libraries as a non-profit agency run under the State's administration would be. Kirkelas urged the Division to perform experiments with the MARC tapes of the Library of Congress to determine their applicability to public library use.

#### Summary

Previous studies of library service in Wisconsin made



recommendations in one or more of three major areas:

Network Recommendations

Communications

Regional Organization

Organizational Recommendations

Contracts and Fees

Sources of Funding

Estimates of Expenditures

Service Recommendations

Reference Services

Centralized Processing Services

In addition, some miscellaneous recommendations were concerned with the educational role of libraries and the need for in-serious training and professional development for librarians.

Although these studies were primarily concerned with public library services, they all reflect a basic understanding of the complexities of interinstitutional cooperation at many levels. The need for detailed and sophisticated planning as a prerequisite for a Statewide Library and Information Network is clearly recognized.

# EXISTING COOPERATIVE EFFORTS AMONG WISCONSIN LIBRARIES

From among the many existing cooperative efforts in



Wisconsin, several important examples have been selected for brief discussion. The existing projects are basically of three types:

- . Interlibrary loan (including photoduplication requests) and reference/referral
- . Centralized technical processing
- . Education and training

Interlibrary Loan and Reference/Referral

The earliest example of library cooperation in Wisconsin is the Reference and Loan Library (RLL) located in Madison. The RLL is a statewide loan service that originally (under the name Traveling Libraries) was designed to provide small collections on a rotating basis to unserviced areas. Now that there are permanent libraries serving most of the rural areas, the rotating collection service has ceased. Instead, the RLL responds to mail requests for books, periodicals, pamphlets, Federal and State documents, and phonograph records. Formerly serving primarily small public libraries and individuals, its heaviest users now are public library systems and state government agencies. The RLL also provides a photoduplication service for periodicals.

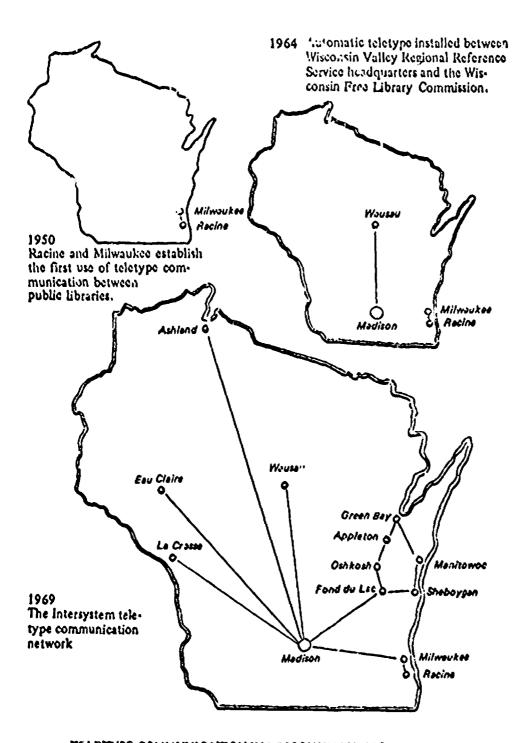
Although RLL has an extensive collection of its own current but specialized documents, it attempts to fill requests for material it does not have by searching the collections of the University of Wisconsin Libraries at Madison or by forwarding the request to the Milwaukee Public Library. Nearly



30% of the requests come through the State teletype networks to RLL. Recent 1969 summary statistics indicate that 53,289 service requests were received, and 43,255 items circulated. The sequence by which the requests are eventually routed to RLL is as follows: a library, upon receiving a reference or loan request that it cannot fill, refers the request, usually by a standard form, to the area library. The area library trys to fill the request, but, if it cannot, the request is referred to the next higher library, and so on until it reaches the RLL by teletype.

The use of teletypewriters in the public libraries of Wisconsin began in 1950 with the Racine Public Library--Milwaukee Public Library link. Now, there are about 13 libraries connected by teletypewriter networks. One network of private lines, called TWP, connects six public libraries of the Fox River Valley area to the Reference and Loan Library (RLL) in Madison. The other network, called TWX, connects the remaining libraries with RLL. The TWX network is maintained by the Bell System and has the advantage of being a part of a nationwide system. The map on page 20 diagrams the growth of the teletype network in Wisconsin public libraries. Today, this system is called the Intersystem Teletype Network and is administered by the Division for Library Services in Madison. This network is used for interlibrary loan, photoduplication and reference requests.





TELETYPE COMMUNICATION IN WISCONSIN PUBLIC LIBRARIES

Fron: Wisconin Library Bulletin March-April 1969



Garrison, in his 1964 report, A Statewide Reference Network for Wisconsin Libraries noted that there was an existing regional interlibrary loan and reference referral service in the Wausau area. The Wausau Public Library, with a bookstock of 80,000 volumes, was already acting informally as a regional library when the 11-county project was funded through LSA monies in 1961. Community libraries, after exhausting their resources, contacted the Wausau Library by phone or mail. the Wausau Library could not reply with sufficient information from the resources at its disposal, a mail request was sent to the (then) Free Library Commission in Madison. By 1964, a union list of serials of all member libraries was established, some libraries were assigned subject areas of specialization, a teletype link to Madison was installed, and there were beginnings of a centralized book processing center at the Wausau Library. In 1964, the Regional Reference System--Wausau Area was still a demonstration project with no expectation of continued funding, but in 1968, as the Wisconsin Valley Library Reference Service, the project was firmly established with budgeting support from ten counties. Now similar systems have sprung up in other areas of the State, the teletype network has been established, and continued operation is more assured.

## Centralized Processing and Cataloging

In 1959, a demonstration processing center funded by
LSA was established at the Fennimore Public Library serving the
southwestern portion of the State. This center, now known as
the Public Library Service Center of Southwest Wisconsin, currently



provides an entire range of services to area libraries, although technical processing is still one of the major services offered.

More recently, the La Crosse Area Library Development project was established. This project, originally funded under LSA, administers Federal funds used to purchase adult non-fiction titles. The center orders all books purchased with Federal funds; it receives, processes, and ships them to the individual area libraries.

A new Federally-funded demonstration project at the Eau Claire Public Library serves six Wisconsin counties through its centralized book ordering and interlibrary lending services.

## Education and Training

The Southwest Wisconsin Public Library Service, the Eau Claire Area Library System Demonstration Project, and the La Crosse Area Library Development project offer programs of in-service training for the staffs of their member libraries.

## WISCONSIN PLANS FOR L'BRARY NETWORKS

Stimulated by obvious need and by the availability of Federal monies (LSA and LSCA funds), library development plans have been evolving in Wisconsin since the appearance of the Wisconsin State Plan of 1957 and the report, Facing the 60's. Most of the work has been concerned with library "quality" assessments in the face of the necessity of maintaining a service to inform the public. Public, shoool, and academic libraries were surveyed throughout the State to measure and evaluate the



quality and size of existing collections, the qualifications of library personnel, the served and unserved user populations, and the construction needs for existing and planned libraries. "Library development", as it has been defined in the various State plans, has included proposed library networks in a variety of configurations: centralized administrations, federations of libraries, library cooperation, library processing centralization, etc. Some plans are now in effect (such as the present teletype networks), other plans have not been implemented, and still others have been discarded.

A description of the organizations presently developing library system plans for Wisconsin follows.

# Advisory Committee on Libraries

The Advisory Committee on Libraries was established in late 1967 when the staff of the Coordinating Committee for Higher Education (CCHE) realized the high priority attached to the efficient utilization of State library resources in higher education and library education. Two subcommittees were formed: the Subcommittee on the State of Technology and the Subcommittee on Library Resources. The Technology Subcommittee investigated and reported on various centralized efforts proposed and existing throughout the United States. The Library Resources Subcommittee reviewed the State's academic library resources. The Advisory Committee report to CCHE in September 1969 was documented as Libraries and Library Education at Wisconsin's Public Universities.



This report was the culmination of the work of both Subcommittees and the Committee as a whole, through twelve meetings from November 1967 to June 1969.

The report recommended that the "public universities should plan on full participation in a State information network," that the interlibrary loan system should be modernized, and that a "cost-benefit analysis should be made of the feasibility of a central purchasing and processing center for Wisconsin's academic libraries." Other recommendations dealt with minimum holdings and proposed standards, development priorities, and the establishment of associate degree programs. In 1970, with this Committee in a dormant state, a Council of Wisconsin Libraries has been established, with representation from the public academic systems, private academic institutions and the Division for Library Services.

# Division for Library Services

The Division for Library Services (DLS) of the State
Department of Public Instruction has, as mandated under
Wisconsin statute, developed a State plan for public library
networks, known as the Knowledge Network of Wisconsin (KNOW).
DLS has been permanently attached to Department of Public
Instruction since 1965. An Advisory Council on Library Development (now called the Council on Library Development) was
established to advise the Governor and the State Superintendent
of Public Instruction. Its primary functions are (1) to
develop policies and activities of the State's library development program and, (2) to find the ways and means to
coordinate, on a Statewide level, public library and school



library services. In accordance with Council recommendation, a Governor's 'onference on Libraries was held April 1969. The Advisory Council also recommended that the Division for Library Services coordinate a program for legislative action. This coordinated effort for State library law revision and funding support is continuing. A final Council recommendation proposed expanded library services to State government agencies.

# Wisconsin Library Association

Association is, as mentioned previously, coordinating its efforts with the Division for Library Services to effect a legislative action program. Their recent publication, <u>Public Library System Development for Wisconsin: An Action Program</u>, outlines the elements of library networks, documents the need, gives a proposed structure for the library system and suggests a method of rendering financial support.

In summary, the Wisconsin plans for library networks in the past decade center around the following topics:

- teletype networks for interlibrary loan, photoduplication and reference service.
- centralized book ordering, processing, preparation, and shipping.
- 3) union catalogs for books and periodicals.
- 4) cooperative book processing among public, academic, and school libraries.



- 5) cooperative reference and loan services with academic, school, public, and special libraries.
- 6) establishment of county-wide governing boards and a system of financial support.
- 7) Increased information services to State government agencies.

# OTHER TACTORS AFFECTING NETWORK PLANNING

The following brief discussion is presented as an aid to understanding the framework within which decisions relating to or resulting from network development take place. Specifics, such as statistics, are presented in Appendices A-C.

# Demographic Characteristics

Because the development of any state library network involves planning for the location and apportionment of library resources, it is essential to consider such characteristics as population density, the number of college - educated adults, the numbers of persons in professional and technical occupations, etc. Figures showing these characteristics on a county-by-county basis appeared in Garrison's 1964 study of reference services and are reproduced as Appendix A.

Other statistics of interest to network planners are found among the enrollment figures of educational institutions.

Garrison noted that high school students (about 358,000 in 1967)



are probably the largest group of users of public library reference service, while college and university students are more likely to have reference needs that can not be satisfied by local public libraries According to CCHE, the projected 1977 enrollment for the University of Wisconsin and the Wisconsin State University systems is 179,000 students. An additional number of students are enrolled in vocational-technical programs and at private colleges and universities in the State. The resulting burden on existing local libraries will be relieved when access to State and National resources is provided.

## Holdings and Facilities

Cnce individual libraries agree to cooperate, as in a library and information network, it might be assumed that each library has resources of sufficient quality or quantity to contribute to the network as well as to derive benefits from the network. Another argument says that, because a network gives each library access to every other participating library, there is no need to spend money to strengthen weak individual collections. The network plan described in Part III of this report solves the problem by giving libraries a chance to plan ahead. That is, although support for individual libraries will continue, all libraries will be aware of the eventual service objectives of the network and of the time-frame for network implementation. Similarly, a collection-building philosophy may be discussed at the network level, but individual libraries will



have the opportunity to spend their own funds and to plan their own collection growth, possibly changing emphasis gradually as network development proceeds. Consideration must be given as to whether existing collections should be deepened or broadened in scope or both. Pertinent statistics reflecting the holdings of Wisconsin libraries are given in Appendix B.

Planning a library network focuses critical attention on facilities and equipment as well as on the collections. Again, decisions on network design and philosophy should precede any determination at the local level as to whether existing facilities are suitable for expansion and rearrangement. The location and design of new facilities then follows according to the population to be served and the nature of the services to be provided.

It is clear that DLS and CCHE are striving for library excellence. Interinstitutional cooperation can facilitate achievement of this goal.

# Library Legislation

In planning the Wisconsin Library and Information Network, it will be essential to review pertinent State and Federal legislation. At the State level, existing laws may: prevent individual libraries from entering into certain types of contracts, regulate fees for services (to residents of the State, to other libraries), limit the ways in which libraries can obtain funds, or specify conditions under which communications links can be established. Continuing close liaison



between network planners and the State legislature will ensure that necessary modifications to existing laws will be made and that any new library legislation recommended by the network will be given prompt and careful consideration. Those portions of the Wisconsin State code of interest to network planners are given in Appendix C.

Network planners must also be aware of any existing or proposed Federal laws that may affect network members individually or collectively. Of particular importance are changes in reporting requirements, in procedures for requesting and allocating Federal funds and in the kind of projects for which (in a given year) special, additional funds may be available (Right to Read, etc.)

Maintaining a continuing awareness of Federal legislation affecting libraries and networks can indeed be a challenge. Currently, the Copyright Revision Bill and ammendments to the Library Services and Construction Act are pending. In addition, reorganization within the U.S. Office of Education and, on July 20, the President's signature on S. 1519 creating a National Commission on Libraries and Information Sciences are major events whose effect on library and network development is as yet unclear. These developments bear watching - copies of appropriate legislation, hearings and press releases should be obtained whenever possible; the offices of Wisconsin's U.S. Senators and Representatives are good points of contact and continuing liaison.



# III. DEVELOPMENT AND PROGRAM PLAN FOR A WISCONSIN LIBRARY AND INFORMATION NETWORK

# INTRODUCTION

Wisconsin, like many other states, is committed to developing a statewide library network that involves compacts among libraries for sharing of resources, union catalog production, centralized technical services, and mechanized information services. Within this framework, there are already a number of activities underway within the State, including the library systems at Milwaukee Public, University of Wisconsin, and Madison. The purpose of this section of the report is to recommend a technical and organizational plan for developing and implementing a statewide computer-based system to serve library needs.

#### Levels of Service

In order to realize the goals for a statewide network, it is recommended that Wisconsin consider developing four levels of service:

- 1. Catalog Production Services--The basic purpose of this facility is to provide centralized union catalog production services. Functions to be performed include the following:
  - establish a standardized format for catalog data consistent with that used in the MARC tapes from the Library of Congress



- act as a central receiving point for catalog
   data from national and local library sources
- ' convert catalog data into a standardized format
- ' produce book catalogs of various types for central, regional, and local needs
- produce union serial lists
- 2. Central Technical Processing Services--Individual libraries can contract with this facility for such services as central ordering, cataloging, card production, and book preparation.
- 3. Mechanized Information Services--This facility provides the capacity to acquire, catalog, and provide information services from magnetic tape data bases of all kinds--reference, numerical, and text--such as those listed in Appendix D. The following are examples of specific services that might be provided:
  - ' Information retrieval based upon straightforward coordination of index data
  - \* Textual analysis and language data processing
  - Question-answering processing
  - · Statistical analysis of data bases
  - Preparation of lists including bibliographies, permuted indexes, subject authorities, citation indexes, and thesauri



4. On-line Bibliographic Services--The purpose of this service is to maintain bibliographic data on disk files and to provide on-line access to these files for libraries throughout the State. Libraries will be able to both query and add information to the data files.

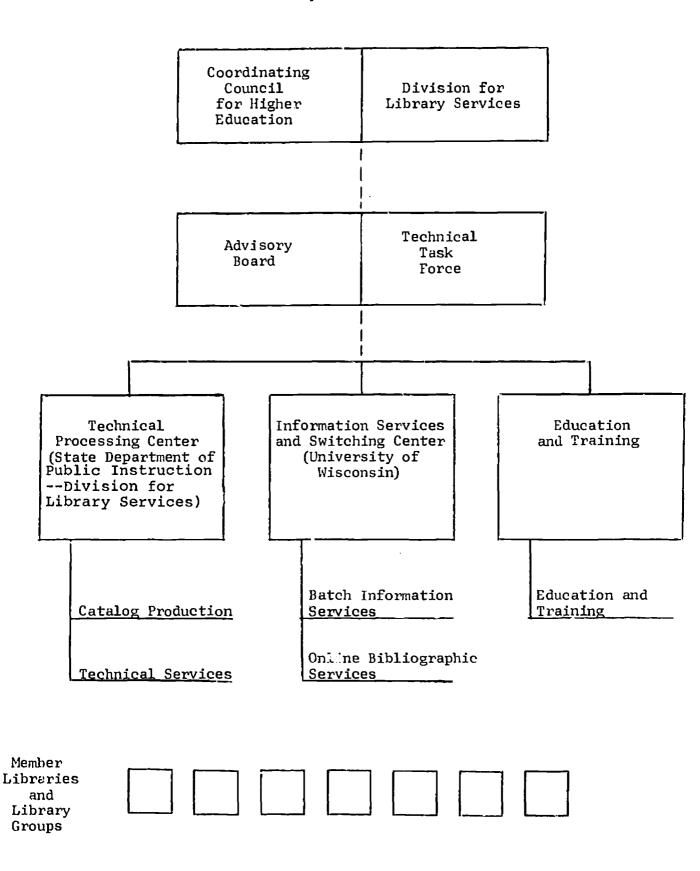
In addition, an educational and training program should be established for the purpose of educating librarians and informing patrons about the operation of the system, available services, and procedures for using them.

#### Administrative Organization

Figure 3 shows an organizational schematic and indicates the groups who might be responsible for developing these services in the statewide library system. It is recommended that the Coordinating Council for Higher Education (CCHE) and the Division for Library Services of the State Department of Public Instruction jointly serve as administrative focal points of the system. Their primary functions would be to receive money from the State and Federal governments for the development, implementation, and operation of the system. An Advisory Board and a Technical Task Force would serve as coordinating and policy advising bodies. Specifically, the responsibility of the Advisory Board, composed of librarians representing various types of libraries and library groups, is to guide CCHE and DLS on what should be done within the State network. The State's Council on Library



Figure 3: Organizational Schematic for a Statewide Library Network in Wisconsin





Development might serve as the initial organization for this group. The Technical Task Force, made up of members from the systems analysis staffs of libraries and library groups, has three general tasks. First, it is responsible for establishing the specifications of the system and assuring that the network is developed to meet the needs of the library community as determined by CCHE, DLS, and the Advisory Board. Second, it should make sure that plans take advantage of current and nearfuture state-of-the-art developments in computer technology. And, third, it should plan to assure compatibility of data that is used by different central services. An additic al function for all three policy groups will be to help arrange for contractors to carry out the technical work needed to develop, implement, and maintain various parts of the system.

The Division for Library Services in the State Department of Public Instruction should be responsible for development and operation of the Catalog Production Services and the Technical Processing Services. The University of Wisconsin should be responsible for development and operation of mechanized information services and the Switching Center and on-line bibliographical center for the network.

The Coordinating Council for Higher Education should make an early effort to contract for the development of Education and Training as a "continuing education" function. Groups with experience in providing such a program should work in cooperation with the University of Wisconsin Library School and University Extension.



Implementing an Administrative Organization

Formation of any network, or cooperative, is generally a slow and deliberate process. Most organizational units are accustomed to operating autonomously and when they join cooperatives, some adjustment is invariably required. Psychological and sociological factors aside, the Wisconsin Library and Information Network can best be started by establishing an Information Network Office in the State Division for Library Services.

Figure 3A is a summary functional description of the Information Network Office. It is presented as a guideline to highlight Network Office objectives and explain the nature of its work. Detailed functional descriptions follow.



## DIVISION FOR LIBRARY SERVICES

#### INFORMATION NETWORK OFFICE

Overall responsibility for network development plus the following functional objectives:

- \* Develop information exchange relationship
- Support network members financially
- \* Set up telecommunications link
- \* Implement cooperative programs
- \* Provide education and training for network personnel
- \* Establish levels of resources and services
- \* Define, responsibilities and functions
- Develop communications links for access to resources in other states

#### COORDINATION SECTION

'ulti-level coordination and liason required promote network development, monitor sluse and improve its performance. Interfees with:

- \* All types of libraries
- \* State data processing facilities
- \* State communications office
- National library/information projects

#### TECHNICAL SECTION

Responsible for development implementation and management of a Technical Processing and Catalog Production Services. Also has responsibilities in the following areas:

- \* System development
- Developing common practices
- \* Production

#### MANAGEMENT SECTION

Implements network policies, negotiates Member contracts, selects equipment an sets standards for technical interfacing, establishes costs for services and plans budgets. Also has the following responsibilities:

- Focal point for education and training
- Serves as public information office
- Develops long range plans for staff, space and budget needs

FIGURE 3A SUMMARY CHART -- FUNCTIONAL DESCRIPTION OF INFORMATION NETWORK OFFICE



#### INFORMATION

#### NETWORK

#### OFFICE

In addition to his overall responsibility for the successful development of the network, the Director's office also has the following functional objectives:

- (1) To develop binding, working-level information exchange relationships among all members of the network.
- (2) To support network members financially in order to help them achieve strong collections and resources.
- (3) To introduce telecommunications connections among members appropriate to their need for such services.
- (4) To implement cooperative programs among members in order to facilitate interlibrary communication and information exchange.
- (5) To accelerate the education and training of network personnel.
- (6) To establish reasonable levels for resources, services, and collections at each echelon of the network.
- (7) To define responsibilities, functions, and obligations for each echelon of the network.
- (8) To evolve methods for drawing actively on the information resources of other states through telecommunications.



# COORDINATION SECTION

This Section is responsible for the multi-level coordination and liaison required to promote network development, monitor its use, and improve its performance. In addition, it has the following functional objectives:

# A. With All Types of Libraries

- (1) to keep the notion of a network alive and growing
- (2) to encourage the enthusiasts and convert the recalcitrants
- (3) to furnish information and advice
- (4) to create an atmosphere of Statewide cooperation and understanding.
- (5) to select areas for pilot work
- (6) to develop mutually agreeable work schedules for transition from old work routines to new
- (7) to trouble-shoot as required

#### B. With State Data Processing Facilities

- (1) to enlist the support of available State and other EDP resources and facilities
- (2) to continually input information network computer requirements into State electronic data processing plans
- (3) to secure priorities and computer time for the Catalog Production Service, and the Central Technical Processing Service

# C. With State Communications Office

- (1) to continually input information network telecommunications requirements into the State Communications Plan
- (2) to arrange installation of DAIN communications for library and information network use



## COORDINATION SECTION (cont.)

- (3) to remain knowledgeable about communications developments within the State and throughout the country
- (4) to investigate the need to attach a communications specialist to the Information Network Office

# D. With National Efforts

- (1) to remain abreast of developments relating to MARC-II, the National Serials Data Program at the Library of Congress, the creation of a data processing standard for the recording of audiovisual bibliographic data, etc.
- (2) to develop an interest among Wisconsin special libraries and major state resources to purchase, experiment with, and offer services utilizing mechanized information services.



This Section is responsible for the development, implementation and management of a Technical Processing and Catalog Production Service in behalf of the Network. In addition, it has the following functional objectives:

# A. System Development

- (1) to analyze and develop effective methods for utilizing available computer resources in support of network catalog production and technical processing
- (2) to maintain technical liaison with those persons inside and outside the State who are involved in related library automation and communications work
- (3) to supervise in-house programming and outside technical contractual support
- (4) to obtain agreement on the content of the detailed implementation plan for the network technical processing and catalog production service.

# B. Encourage Common Practices

- (1) to develop ground rules for the cataloging record and associated book catalogs
- (2) to seek agreement on form of entry and adoption of LC rules
- (3) to provide senior cataloging advice and guidance on changeover
- (4) to obtain area agreement on use of network implementation plan - through field meetings and letter of intent
- (5) to specify form of entry and layout for area catalogs; to recommend specifications for local catalogs

#### C. Production

- (1) to develop a plan within each area for scheduling work leading to active relationships with the Technical Processing Center and production of respective book catalogs
- (2) to utilize MARC-II tapes for production



This Section is responsible for the administrative direction of the network. It implements network policies, negotiates member contracts, provides financial support, approves new members, selects equipment and sets standards for technical interfacing, establishes cost schedules for services, plans budgets coordinates with the State's telecommunications office, contracts for computer services, develops audiovisual educational materials for the network, and publishes a network newsletter. In addition it has the following functional objectives:

- (1) To develop content for a standard contractual agreement between the Information Network Office and members of the network for the full range of services to be offered to participants
- (2) To generate a chart of accounts for keeping track of network expenditures and related activities in order to provide a basis for financial support for services and for estimating budgets realistically
- (3) To perform long range budget planning; and, to develop a method for predicting and explaining savings or new services achieved by the network
- (4) To solicit counsel on alternative legal procedures for initiating various modules of the network program
- (5) To serve as focal point within the Division for the provision of education and training programs explaining network plans and library automation in general



## MANAGEMENT SECTION (cont.)

- (6) To develop a training schedule consistent with the developing program of the network
- (7) To recommend to the Division appropriate press releases and other programs designed to inform the media and the public with respect to network development
- (8) To produce audiovisual and printed materials for purposes of information dissemination
- (9) To plan for expansions of staff and space according to scheduled growth
- (10) To procure equipment, contractual services, consulting, etc.



Selection of a Director for the Information Network
Office will require finding someone who is a specialist in information science, who understands libraries, and who is technically equipped to direct programs which, in time, will certainly involve the use of computers, telecommunications equipment, and other elements of network technology. The person selected therefore, should be relatively young and capable of meeting and dealing effectively with library and technical personnel.

Creation of a Network in Wisconsin will be an evolutionary task. A Network cannot be developed overnight; it is a slow and gradual process requiring considerable management tact and careful planning. Yet, it must be started with a workable, here and now module that will provide a real service, which people can understand and want. Thus, the creation of a strong Network Office from the very beginning is essential. If the Network concept does take hold in Wisconsin there should be an operating Network Office on hand to further its development and accelerate its growth.

Summary of Network Development Plan

Figure 4 presents a summary of major tasks to be accomplished (after the Network Office is established) in developing a statewide library network, assuming that Wisconsin begins work on the system in 1971. These tasks fall into three general categories:



- 1. Those involved in establishing the organization of the major components in the network (tasks 1 through 6);
- 2. Those in which procedures are developed for interacting among the components in the network (tasks 7 through 10);
- 3. Those which provide for the development, implementation, and operation of central services (tasks 11 through 19).

#### PROGRAM PLAN

The remainder of this report discusses the tasks, costs, and schedule necessary to develop the four central services--book catalog production, central technical processing, mechanized information services, and on-line bibliographic ser-There are six phases in the development and implementation vices. of each of these services which lead to their becoming operational sub-systems within the Knowledge Network for Wisconsin. First, there is a management stage during which the capabilities are developed for administering each service on a long range basis. Second, the feasibility of each service and the preliminary specifications of each major operation must be established. Third, a training, education, and public relations program must be created for informing both librarians and library patrons about each service. Fourth, a development and implementation phase will create the operational capabilities for each service. Fifth,



Figure 4: Summary of Network Plan 1971-1975

| Event | Task Description   | Starting<br>Date | Operational<br>Date |
|-------|--|------------------|---------------------|
| 1     | Establish processing center, with emphasis on Book Catalog Production Services                   | 1971             | 1972                |
| 2     | Establish information service and switching center   | 1971             | 1974                |
| 3     | Establish geographic area cooper-<br>ative groups encompassing all<br>libraries in each area     | 1971             | 1972                |
| 4     | Establish area reference centers in the dominant library of each area                            | 1971             | 1972                |
| 5     | Establish cooperative groups for special libraries   | 1971             | 1972                |
| 6     | Establish a primary reference center for each specialty group                                    | 1971             | 1972                |
| 7     | Collect area catalogs at the<br>Switching Center to aid<br>directory services                    | 1972             | 1973                |
| 8     | Collect specialty catalogs at the switching center to aid directory services                     | 1972             | 1973                |
| 9     | Use statewide telephone system for inter-library communication                                   | 1972             | 1973                |
| 10    | Produce regional catalogs for the holdings of each geograph-ical area (non-specialty librar-ies) | 1972             | 1973                |



| Event | Task Description   | Starting<br>Date | Operational<br>Date |
|-------|--|------------------|---------------------|
| 11    | Establish Automated Switching Center at the University of Wisconsin, including TWX, facsimile transmission, and digital computer communication | 1973             | 1975                |
| 12    | Acquire nationally produced machine-readable catalog data (MARC, MEDLARS, ERIC) for the catalog production and technical processing center     | 1971             | 1973                |
| 13    | Acquire machine-readable<br>data bases for the informa-<br>tion services center  | 1972             | 1974                |
| 14    | Provide technical process-<br>ing services to individual<br>libraries and library groups<br>throughout the State                               | 1971             | 1974                |
| 15    | Provide retrieval services<br>to users based on infor-<br>mation in the machine-<br>readable data bases  | 1971             | 1974                |
| 16    | Collectserials collection information from individual libraries  | 1972             | 1973                |
| 17    | Produce union or regional list of serials  | 1973             | 1974                |
| 18    | Provide on-line computer services to clerical processing in group centers  | 1973             | 1975                |
| 19    | Provide on-line computer retrieval services to users of specialty centers  | 1973             | 1975                |



during the operational stage, actual services are offered. Finally, sixth, the maintenance phase provides for continued improvement of the operational system. Each of these phases can be separately budgeted in terms of time and money, but each is a necessary step toward realizing the operational system.

#### Management Phase

This stage establishes the bosic management and administrative capability to provide long-range, continuing direction for the network, as well as its development. The tasks of the management staff include the following:

- 1. Recruit staff for each of the phases.
- Establish procedures for cost accounting and cost/benefit analysis.
- Ensure adequate funding for each stage in the development of central services.
- 4. Establish an activity plan including the work breakdown structure, identification of responsible personnel, and detailed time-phasing of each activity.
- 5. Establish the proper communication channels for interaction among the central services personnel, advisory groups, and librarians.
- 6. Make sure that there is adequate documentation from each phase.



7. Develop both long and short range goals so that the initial system can evolve through various operational stages toward the implementation of the final system.

# Feasibility and Specification Phase

The following checklist can be used for establishing preliminary system specifications for each service.

- 1. Objectives -- what the service is supposed to do.
- Operations--how does the service facility accomplish its objectives.
- 3. Capacities--constraints, volume of activity, alternative modes of operation, flexibility of the facility to grow and change.
- 4. Input/Output Requirements--what information flows in and out of the system, how it moves from one central service to nother, and what are the requirements for this flow.
- 5. Interface Requirements--how this service interacts with the rest of the system components.
- 6. Implementation Plans--the schedule, and associated costs for the implementing of plans for this service.

# Training, Education, and Public Relations Phase

The purpose of this stage is to acquaint the staff in those libraries which are participating (or potentially partici-



pating) in one or more aspects of the system, with the nature of the service, the requirements for participating, the advantages and potential difficulties, etc. Specific tasks to be accomplished are listed below:

- Identify the groups who will need training and what the scope of instruction will be for each group.
- Identify the library groups who will need to be informed about the central services and the network.
- 3. Develop personnel training programs.
- 4. Prepare training manuals.
- Conduct training sessions and education workshops.
- 6. Establish procedures for libraries and library users to voice reactions (recommendations, commendations, and criticisms) to the services.

Development and Implementation Phase

During this stage, the operational capabilities of the service are created. Various tasks to be performed are listed below.

- 1. Design and produce computer programs.
- 2. Finalize the design of all forms to be used.
- 3. Finalize file structures and record formats.



- 4. Write detailed operating instructions and procedures.
- 5. Convert files to machine-readable form.
- 6. Confirm equipment interfaces.
- 7. Procure equipment.
- Establish interfaces between groups within each service center and among the services in the network.
- 9. Install communications links.
- 10. Test all phases of the system
- 11. Establish procedures for error reporting.
- 12. Correct errors in system design and computer programs.
- 13. Prepare all documentation including system description, procedure manuals, and program descriptions.
- 14. Establish procedures for phasing into the operational phase.

## Operational Phase

The facility is operating and providing services to libraries and their users during this phase. Procedures for collecting statistics used in preparing management reports will be implemented during this phase.

#### Maintenance Phase

This phase provides for the continuing review, correction, and improvement of the on-going operational service including the



modification of hardware, software, and procedures.

Figure 5 presents a schedule that can be used in estimating the amount of time required for completing each phase of each service during a 5-year period.

# FUNDING FOR CENTRAL SERVICES

The funding for various phases of each service can come from local, State, and national sources as outlined in Figure 6. The Division for Library Services should be specifically funded for the management and administration of the Technical Processing and Catalog Production Services as part of its own budget. Since the Department of Public Instruction has the authority to allocate funds under the Library Services and Construction Act (LSCA), it represents an appropriate agency to provide funding of the development and implementation phase for the Technical Processing Center. State and Federal funds should be budgeted for the major commitment of development, training, and implementation costs for the Information Processing and Switching Center. A scale of fees should be established so that the costs of operation and maintenance would be covered by charges to the participating libraries for services provided to them.



| Central Service                     | Year l   | Year 2     | Year 3   | Year 4 | Year 5     |
|-------------------------------------|--|------------|----------|--------|------------|
| Catalog<br>Production<br>Services   | $\longrightarrow \longleftrightarrow \bigcirc$ |            | (3)      | (£)    |            |
|                                     | <b></b>  |            |          | (c)    |            |
| Central<br>Technical<br>Processing  |  | <b>(</b> ) | )<br>(I) | (5)    |            |
| <del></del>                         | <b>\</b>                                       |            |          | (C)    |            |
| Mechanized<br>Information           | <b>(</b> (2) →                                 | Þ          | $\Theta$ | (3)    |            |
| s                                   |  |            |          | 3      | <b>(9)</b> |
| Online<br>Bibliographic<br>Services |  |            | (F)      |        |            |
|                                     |  |            |          |        |            |

Development and Implementation Figure 5: Proposed Schedule for System Development and Implementation Operational **#** 2 Feasibility & Specifications Management 2

Maintenance

9

Training & Education

ന



|   | <del>,</del>  |
|---|---|
| Technical Processing Center (Division for Library Services) | Information Processing Center (University of Wisconsin)                         |
| DLS   | University of Wisconsin   |
| LSCA and/or<br>State funds                                  | Federal and/or<br>State funds   |
| Fees  | Fees  |
|   | Processing Center (Division for Library Services)  DLS  LSCA and/or State funds |

Figure 6: Sources of Income for Funding a Statewide Library Network

The following tables provide estimates of the budgets necessary to accomplish the goals of each phase in the four services. Tables 1 through 5 project total costs by year for the four services. Tables 6 through 9 show the costs by service for a five year period. Overhead, is calculated at 57%, including 45% for basic overhead and 12% for benefits.



| Phase   | Catalog<br>Froduction                      | Central<br>Processing          | Mechanized<br>Information<br>Services           | On-line<br>Services | TOTAL                                 |
|---|--|--------------------------------|---|---------------------|---------------------------------------|
| Mgt.<br>Feas. & Spec.<br>Educ. & Train.<br>Dev. & Impl. | 47,000(1)<br>(2)<br>40,000(4)<br>10,000(6) | (1)<br>(2)<br>(4)<br>60,000(7) | 47,000(1)<br>20,000(3)<br>8,000(5)<br>35,000(8) |                     | 94,000<br>40,000<br>48,000<br>105,000 |
| Subtotal<br>Overhead                                    | 97,000<br>55,300                           | 60,000<br>34,200               | 110,000 62,700                                  |                     | 287,000<br>163,600                    |
| Subtotal<br>Operat.<br>Maint.                           | 152,300<br>250,000(9)                      | 94,200                         | 172,700   |                     | 450,600<br>250,000                    |
| TOTAL   | 402,300                                    | 94,200                         | 172,700   |                     | 700,000                               |

Table 1: Estimated Costs for Services during Year 1

# Notes:

(1) Management costs are shared for catalog production and central technical processing. The \$47,000 estimate is based on the experience of the Institute of Library Research at UCLA in which the yearly budget roughly divides into the following expenses:

| Policy Direction (20% of 25,000) | 5,000    |
|----------------------------------|----------|
| Project Management               | 16,000   |
| Support Staff                    | 10,000   |
| Clerical Staff                   | 6,000    |
| Supplies and Expenses            | 1.0,000  |
| Total                            | \$47,000 |



- (2) Under the assumption that the results of the present Becker and Hayes study are accepted, the feasibility study and preliminary specifications for the catalog production and technical processing services will have been done. On the other hand, if a re-evaluation is called for or if the Project Management staff wants to establish more detailed specifications, a budget of approximately \$20,000 should be added for year 1.
- (3) Under the assumption that the work done by the Institute of Library Research in their study of the feasibility of "Mechanized Information Services in the University Library" established the general feasibility, all that is needed is a six-month effort (estimated at \$20,000) to establish the specific boundary conditions at the University of Wisconsin.
- (4) This estimate is based on the cost of conducting a program of regional 1-2 day meetings, held at various places throughout the State, at which librarians, library boards and the general public can be made aware of the implications of catalog production and central technical processing services. Each meeting should have a budget of roughly \$2000 as outlined below, and therefore 20 of them would cost \$40,000.



| Speakers' fees or honoraria   | \$  | 600  |
|-------------------------------|-----|------|
| Travel for staff and speakers |     | 600  |
| Facilities                    |     | 100  |
| Material for Distribution     |     | 300  |
| Publicity                     |     | 100  |
| Miscellaneous expenses        |     | 300  |
| Total                         | \$7 | 2000 |

(5) This estimate is based on the experience of the Institute of Library Research in the series of seminars held with library staff and potential users. Each seminar involved a 12-week set of lectures, demonstrations, and work-shops during which the participants learned how the service would affect them. The budget, shown below, covers one such seminar, under the assumption it is held during the second six-months of the year (after the completion of the feasibility study).

Speakers' fees and honoraria \$1000
Participants' released time
(25 participants @ 20% of
their time for 12 weeks) 6000
Expenses (computer time,
supplies) 1000
\$8000

(6) Under the assumption that a commercial organization can contract for the operational service of catalog production, the only costs are those for developing an RFP, soliciting bids, and evaluating the proposals.



(7) Based on the experience at the Institute of
Library Research, at ANYLTS, at NELINET, etc.,
these are the first year costs in the development
of the central technical processing services
which include the following types of personnel
and supply costs:

| Systems Analysts (2 @ 12 | 2,000) \$24,000 |
|--------------------------|-----------------|
| Programmer               | 10,000          |
| Librarian                | 10,000          |
| Clerical Staff (2 @ 6000 | 12,000          |
| Supplies                 | 4,000           |
| Total                    | \$60,000        |

(8) Based on the experience at the Institute of
Library Research, these are the first six-months'
costs for development. Roughly, they divide
half and half between computer programming
development costs (i.e. producing detailed
specifications) and data base experimentation
costs:

Programming Staff (3 for 6 months) \$12,000
Experimentation Staff (3 for 6 months) 12,000
Clerical Staff 2,000
Supplies, expenses, etc. (including computer charges and data base acquisition costs) 8,000
Total \$35,000

(9) Assumes the production of 200 copies of one union catalog covering 100,000 titles. The unit cost of \$2.50 per title (as outlined below) includes personnel salaries, direct and indirect supplies, benefits, and overhead. Tasks included in the



production of the union catalog are the tagging, keying, editing, and correction of the catalog entries plus the computer processing, photocomposition, printing, binding, and distribution of the catalogs.



Unit Entries/Sheets/ Entries/ Units/Retro-Costs Title Master Master Volume spective MARC

| Tasks         | Costs   | Title                       | Master | Master  | Volume    | spective   | MARC     |
|---------------|---------|-----------------------------|--------|---------|-----------|------------|----------|
| Conversion Pr | ocess:  |                             |        |         |           |            | <u>-</u> |
| Edit          |         |                             |        |         |           | \$.25      |          |
| Key           |         |                             |        |         |           | .35        | .03      |
| Verify and Re | key     | ن ہوں ہے۔ بیکنا انہیں بینیا |        |         |           | .20        | .01      |
| Input         |         |                             |        |         |           | .02        |          |
| Search & Extr | act     |                             |        |         |           |            | . 39     |
|               |         |                             |        |         | •         | .82        | \$.43    |
| Book Catalog  | Product | ion:                        |        |         |           |            |          |
| Process       | \$.05/  | 5/title                     |        |         |           | .25        |          |
|               | entry   | ,                           |        |         |           |            |          |
| Compose       | \$.10   |                             |        | 40/     |           | .01        |          |
| •             | maste   | r                           |        | master  |           |            |          |
| Master Create | \$1.00/ | 5 title                     |        | 40/     |           | .13        |          |
|               | maste   |                             |        | master  | _         |            |          |
| Setup         | \$.25/  | 5 title                     |        | 40/     |           | .03        |          |
|               | maste   |                             |        | master  |           |            |          |
| Print         |         | 5 title                     |        | 40/     |           | .25        |          |
|               | sheet   |                             | master | master  |           |            |          |
| Bind          | \$1.00/ | 5 title                     | 200/   | 40/     | 500/      | 10_        |          |
|               | volum   | ıe                          | master | master  | vol.      |            |          |
|               |         |                             |        |         |           | .77        |          |
|               |         |                             |        |         |           | 1.59/title |          |
|               |         |                             |        | Overhea | ad (@57%) | .906/tit   | le       |
|               |         |                             |        | TOTAL   | \$        | 2.496/tit: | le       |
|               |         |                             |        |         |           |            |          |

Costs for the preparation of 200 copies of a union catalog containing 100,000 titles



| Phase          | Catalog<br>Production | Central<br>Processing | Mechanized<br>Information<br>Services | On-line<br>Services | TOTAL     |
|----------------|-----------------------|-----------------------|---------------------------------------|---------------------|-----------|
| Mgt.           | 47,000 (1)            | (1)                   | 47,000 (1)                            | 47,000 (1)          | 141,000   |
| Feas. & Spec.  |                       |                       |                                       | 100,000 (2)         | 100,000   |
| Educ. & Train. | 10,000 (3)            |                       | 16,000 (4)                            |                     | 26,000    |
| Dev. & Impl.   |                       | 200,000 (5)           | 170,000 (6)                           |                     | 370,000   |
| Subtotal       | 57,000                | 200,000               | 233,000                               | 147,000             | 637,000   |
| Overhead       | 32,500                | 114,000               | 132,800                               | 83,000              | 362,300   |
| Subtotal       | 89,500                | 314,000               | 365,800                               | 230,800             | 999,300   |
| Operat.        | 500,000 (7)           |                       |                                       |                     | 500,000   |
| Maint.         | 30,000 (8)            |                       |                                       |                     | 30,000    |
| TOTAL          | 619,500               | 314,000               | 365,800                               | 230,800             | 1,529,300 |

Table 2: Estimated Costs for Services during Year 2

## Notes:

- (1) See Note 1 in Table 1.
- (2) This estimate is based on the plans at the Institute of Library Research and on the experiences of projects such as those at Colorado and Ohio.
- (3) This cost assumes the continuation of 5 seminars per year each at \$2,000.
- (4) This estimate is based on holding 2 seminars each at \$8,000.
  (See Note 5 in Table 1).
- (5) This cost, based on the experience at the Institute of Library Research, includes the conversion of some files to machine-readable form.



| Systems Analysts (3 @ 12,000) | \$ 36,000 |
|-------------------------------|-----------|
| Programmers (3 @ 10,000)      | 30,000    |
| Clerical Support (2 @ 6,000   |           |
| 4 @ 5,000)                    | 32,000    |
| Supplies and equipment        | 102,000   |
| Total                         | \$200,000 |

(6) These cost estimates detailed below are based on the experience at the Institute of Library Research for development of mechanized information services.

| Project Director              | \$       | 18,000 |
|-------------------------------|----------|--------|
| Systems Analysts (2 @ 12,000) |          | 24,000 |
| Programmers (6 @ 10,000)      |          | 60,000 |
| Librarians (2 @ 10,000)       |          | 20,000 |
| Clerical Support (2 @ 6,000)  |          | 12,000 |
| Supplies and equipment        |          | 25,000 |
| Acquisition of tapes          |          | 12,000 |
| Total                         | <u> </u> | 70,000 |

- of two new union catalogs, each containing about 100,000 titles. Again, the unit cost of \$2.50 per title covers salaries, supplies, and overhead.
- (8) This estimate, which includes overhead, is based on the cost of one technical staff member plus the computer processing time necessary to maintain programs.



| Phase          | Catalog<br>Production | Central<br>Processing | Mechanized<br>Information<br>Services | On-line<br>Services | TOTAL     |
|----------------|-----------------------|-----------------------|---------------------------------------|---------------------|-----------|
| Mgt.           | 47,000 (1)            | (1)                   | 47,000 (1)                            | 47,000 (1)          | 141,000   |
| Fcas. & Spec.  | !                     |                       |                                       |                     |           |
| Educ. & Train. | 10,000 (2)            |                       | 8,000 (3)                             | 40,000 (4)          | 58,000    |
| Dev. & Impl.   |                       | 200,000 (5)           | 284,000 (6)                           | 480,000 (7)         | 1,040,000 |
| Subtotal       | 57,000                | 200,000               | 339,000                               | 567,000             | 1,109,000 |
| Overhead       | 32,000                | 114,000               | 193,000                               | 323,200             | 706,200   |
| Subtotal       | 89,500                | 314,000               | 532,000                               | 890,200             | 1,815,200 |
| Operat.        | 500,000 (8)           | 250,000 (9)           |                                       |                     | 750,000   |
| Maint.         | 30,000 (10)           |                       |                                       |                     | 30,000    |
| TOTAL          | 619,500               | 564,000               | 532,000                               | 890,200             | 2,595,200 |

Table 3: Estimated Costs for Services during Year 3

## Notes:

- (1) See Note 1 in Table 1.
- (2) This cost assumes a continuation of holding 5 seminars, each costing \$2,000.
- (3) Assumes one seminar in mechanized information services.

  (See Note 8 in Table 1)
- (4) This estimate is based on the assumption that 20 seminars would be held throughout the year, each at a cost of \$2,000. (See Note 4 for Table 1)
- (5) See Note 5 in Table 2.



(6) The costs detailed below are based on ILR experience in establishing a Center for Information Services.

| Project Director              | \$  | 18,000  |
|-------------------------------|-----|---------|
| Systems Analysts (4 @ 12,000) |     | 48,000  |
| Programmers (6 @ 10,000)      |     | 60,000  |
| Librarians (6 @ 10,000)       |     | 60,000  |
| Clerical Support (4 @ 6,000)  |     | 24,000  |
| Supplies and equipment        |     | 50,000  |
| Acquisition (magnetic tapes)  |     | 24,000  |
| Total                         | \$7 | 284,000 |

- (7) These cost estimates are based on the budget plan from Ohio.
- (8) This cost estimate assumes the production of 200 copies of two new union catalogs, each containing about 100,000 titles.

  Again, as explained in Note 9 for Table 1, the unit cost of \$2.50 per title covers personnel, supplies, and overhead.
- (9) This estimate is based on processing 150,000 volumes at a unit cost of \$1.67 per volume. This is the average unit cost advertised by ANYLTS for this volume level.
- (10) This estimate, which includes overhead, is based on the cost of one technical staff member plus the computer processing time necessary to maintain programs.



| Phase          | Catalog<br>Production | Central<br>Processing | Mechanized<br>Information<br>Services | On-line<br>Services | TOTAL     |
|----------------|-----------------------|-----------------------|---------------------------------------|---------------------|-----------|
| Mgt.           | 47,000 (i)            |                       | 47,000 (1)                            | 47,000 (1)          | 141,000   |
| Feas. & Spec.  |                       |                       |                                       |                     |           |
| Educ. & Train. | 10,000 (2)            |                       | 8,000 (3)                             | 10,000 (2)          | 28,000    |
| Dev. & Impl.   |                       |                       |                                       | 480,000 (4)         | 480,000   |
| Subtotal       | 57,000                |                       | 55,000                                | 537,000             | 649,000   |
| Overhead       | 32,500                |                       | 31,400                                | 306,000             | 369,900   |
| Subtotal       | 89,500                |                       | 86,400                                | 843,000             | 1,018,900 |
| Operat.        | 500,000 (5)           | 1,000,000 (6)         | 606,000 (7)                           |                     | 2,106,000 |
| Maintenance    | 30,000                | 100,000               | 70,000                                |                     | 200,000   |
| TOTAL          | 619,500               | 1,100,000             | 762,400                               | 843,000             | 2,306,000 |

Table 4: Estimated Costs for Services during Year 4

# Notesi

- (1) See Note 1 for Table 1.
- (2) Based on holding 5 seminars during the year, each at a cost of \$2,000 as outlined in Note 4 for Table 1.
- (3) Based on holding 1 seminar. (See Note 5 in Table 2)
- (4) Based on the experience at TLR and the plans for Ohio.
- (5) Assumes the production of 200 copies of two new union catalogs each containing about 100,000 titles. See Note 9 in Table 1 for a detailed explanation of \$2.50 per title unit cost.
- (6) Assumes the processing of 600,000 volumes at a unit cost of \$1.67 per volume as advertised by ANYLTS.



(7) Based on the experience at ILR, the estimated costs are as follows:

| Project Director                  | \$ 18,000 |
|-----------------------------------|-----------|
| Systems Analyst                   | 12,000    |
| Programmer                        | 10,000    |
| Computer Operators (2 @ 7,000)    | 14,000    |
| Librarians (6 @ 10,000)           | 60,000    |
| Clerical Staff (3 @ 6,000)        | 18,000    |
| Supplies and equipment (computer) | 153,000   |
| Acquisition (200 magnetic tapes   |           |
| @ \$500/tape)                     | 100,000   |
|                                   | 385,000   |
| Overhead                          | 221,000   |
| Total                             | \$606,000 |

| Phase          | Catalog<br>Production | Central<br>Processing | Mechanized<br>Information<br>Services | On-line<br>Services | TOTAL     |
|----------------|-----------------------|-----------------------|---------------------------------------|---------------------|-----------|
| Mgt.           | 47,000                | }                     | 47,000                                | 47,000              | 141,000   |
| Feas. & Spec.  |                       |                       |                                       |                     |           |
| Educ. & Train. | 10,000                |                       | 8,000                                 | 10,000              | 28,000    |
| Dev. & Impl.   |                       |                       | -                                     |                     |           |
| Subtotal       | 57,000                |                       | 55,000                                | 57,000              | 169,000   |
| Overhead       | 32,500                |                       | 31,400                                | 32,500              | 96,400    |
| Subtotal       | 89,500                |                       | 86,400                                | 89,500              | 265,400   |
| Operation      | 500,000               | 1,000,000             | 606,000                               | 800,000             | 2,906,000 |
| Maintenance    | 30,000                | 100,000               | 70,000                                |                     | 200,000   |
| TOTAL          | 619,500               | 1,100,000             | 762,400                               | 989,500             | 3,371,400 |

Table 5: Estimated Costs for Services during Year 5

Note: Costs during Year 5 are the same as those for Year 4 with the exception of development and implementation costs for On-line Bibliographic services which occur only during Year 4.



| Phase         | Year 1  | Year 2  | Year 3  | Year 4  | Year 5  | TOTAL     |
|---------------|---------|---------|---------|---------|---------|-----------|
| Mgt.*         | 47,000  | 47,000  | 47,000  | 47,000  | 47,000  | 235,000   |
| Feas. & Spec. |         |         |         |         |         |           |
| Educ. & Train | 40,000  | 10,000  | 10,000  | 10,000  | 10,000  | 80,000    |
| Dev. & Impl.  | 10,000  |         |         |         |         | 10,000    |
| Subtotal      | 97,000  | 57,000  | 57,000  | 57,000  | 57,000  | 325,000   |
| Overhead      | 55,300  | 32,500  | 32,500  | 32,500  | 32,500  | 185,300   |
| Subtotal      | 152,300 | 89,500  | 89,500  | 89,500  | 89,500  | 510,300   |
| Operat.**     | 250,000 | 500,000 | 500,000 | 500,000 | 500,001 | 2,250,000 |
| Maint.        |         | 30,000  | 30,000  | 30,000  | 30,000  | 120,000   |
| TOTAL         | 402,300 | 619,500 | 619,500 | 619,500 | 619,500 | 2,880,300 |

Table 6: Summary of Estimated Costs for Catalog Production Services

| Phase          | Year l   | Year 2  | Year 3  | Year 4    | Year 5    | TOTAL     |
|----------------|----------|---------|---------|-----------|-----------|-----------|
| Mgt.*          | <b>[</b> |         |         |           |           |           |
| Feas. & Spec.  |          |         |         |           |           | 1         |
| Educ. & Train. | ,        |         |         |           |           |           |
| Dev. & Impl.   | 60,000   | 200,000 | 200,000 |           |           | 460,000   |
| Subtogal       | 60,000   | 200,000 | 200,000 |           |           | 460,000   |
| Overhead       | 34,200   | 114,000 | 114,000 |           |           | 262,200   |
| Subtotal       | 94,200   | 314,000 | 314,000 |           |           | 722,200   |
| Operat.**      |          | ]       | 250,000 | 1,000,000 | 1,000,000 | 2,250,000 |
| Maint.         |          |         |         | 100,000   | 100,000   | 200,000   |
| TOTAL          | 94,200   | 314,000 | 564,000 | 1,100,000 | 1,100,000 | 3,172,200 |

Table 7: Summary of Estimated Costs for Central Technical Processing Services

\*\*\* Based on processing 150,000 volumes during year 3 and 600.000 volumes during years 4 and 5.



<sup>\*</sup> The management and administrative costs are shared for catalog production and technical processing services.

<sup>\*\*</sup> Assumes the production of one union catalog during the first year and two union catalogs during each of the following years.

| Phase          | Year l  | Year 2  | Year 3  | Year 4  | Year 5  | TOTAL     |
|----------------|---------|---------|---------|---------|---------|-----------|
| Mgt.           | 47,000  | 47,000  | 47,000  | 47,000  | 47,000  | 235,000   |
| Feas. & Spec.  | 20,000  |         |         |         |         | 20,000    |
| Educ. & Train. | 8,000   | 16,000  | 8,000   | 8,000   | 3,000   | 48,000    |
| Dev. & Impl.   | 35,000  | 170,000 | 284,000 |         |         | 489,000   |
| Subtotal       | 110,000 | 233,000 | 339,000 | 55,000  | 55,000  | 792,000   |
| Overhead       | 62,700  | 132,800 | 193,000 | 31,400  | 31,400  | 451,300   |
| Subtotal       | 172,700 | 365,800 | 532,000 | 86,400  | 86,400  | 1,243,300 |
| Operation      |         |         |         | 606,000 | 606,000 | 1,212,000 |
| Maint.         |         |         |         | 70,000  | 70,000  | 140,000   |
| TOTAL          | 172,700 | 365,800 | 532,000 | 762,400 | 762,400 | 2,595,300 |

Table 8: Summary of Estimated Costs for Mechanized Information Services

| Phase          | Year 1 | Year 2  | Year 3  | Year 4  | Year 5  | TOTAL     |
|----------------|--------|---------|---------|---------|---------|-----------|
| Mgt.           |        | 47,000  | 47,000  | 47,000  | 47,000  | 188,000   |
| Feas. & Spec.  |        | 100,000 |         |         |         | 100,000   |
| Educ. & Train. |        |         | 40,000  | 10,000  | 10,000  | 60,000    |
| Dev. & Impl.   |        |         | 480,000 | 480,000 |         | 960,000   |
| Subtotal       |        | 147,000 | 567,000 | 537,000 | 57,000  | 1,308,000 |
| Overhead       |        | 83,800  | 323,200 | 306,000 | 32,500  | 745,500   |
| Subtotal       |        | 230,800 | 890,200 | 843,000 | 89,500  | 2,053,500 |
| Operat.        |        |         | !       |         | 800,000 | 800,000   |
| Maint.         |        |         |         |         | -       |           |
| TOTAL          |        | 230,800 | 890,200 | 843,000 | 889,500 | 2,853,500 |

Table 9: Summary of Estimated Costs for On-line Bibliographic Services



## PROJECTED BENEFITS

It is unlikely that the cost of developing the entire system can be justified on the basis of direct cost savings. Therefore, a careful analysis must be made of benefits. These include the sharing of resources, the access to larger sources of information, better handling of requests, reduction in duplicate work, and more rapid access to materials. Therefore, at an early point during the development of the system, a full cost/benefit study should be contracted for in order to evaluate the benefits from the services offered, their unit costs, and their future costs.

The following paragraphs enumerate some of the particular benefits that should be gained through implementation of central services in the Knowledge Network. One of the most important benefits to users will be the availability of reference tools such as union and regional book catalogs and union serial lists. In addition, the mechanized information center will offer patrons access to new kinds of information and to various methods of processing data that have previously been unavailable. The on-line bibliographic center will allow users to obtain virtually instant access to the bibliographic resources of the state for research purposes and for decision making.

Benefits to the librarians will include reduced clerical work, quicker processing time, wider access to resources, and a variety of new working tools. Implementing library automation usually increases the amount of clerical work that can be accomplished efficiently and tends to shift the responsibility



of professional librarians away from performance of or supervision of these tasks and toward increased specialization and user contact. The net result is a more appropriate use of existing skills and an environment that is attractive to new library staff.

One of the most important benefits to everyone in the system is the opportunity afforded by computer technology in eventually reducing unit costs for record keeping. By storing information in machine-readable form, it can be used for any number of applications and will not require the retyping or manual reorganization that is currently necessary. Important to management is the benefit that machine-readable data can be automatically processed to provide statistical reports needed for better and more efficient library organization and operation in the future.

Particular benefits for each central service are listed below:

# 1. Technical Processing Services

- immediate answers to staff and patrons regarding the status of ordered materials (received, awaiting labeling, awaiting cataloging, being cataloged, being bound, etc.)
- ' development, acceptance, and use of state-wide record formats permits new services such as the preparation of different kinds of accession lists for use by various types of litraries (public, university, specialty, etc.)



- standard accessions information to permit preparation and maintenance of a state-wide catalog of holdings
- better and more accurate accounting of book funds
- · clerical work reduction
- provision of data that can be used for vendor performance analysis

# 2. Catalog Production Service

- more accurate and more current subject authority control files
- multiple listings providing parallel access by catalogers
- · specialized listings by subject or type of media
- · broader reference capabilities

# 3. Mechanized Information Services

- improved access to literature in science and technology
- access to socio-economic data for planning and economic projection
- · full text for research at university level
- · access to CAI materials for public school use

# 4. On-line Bibliographic Services

- better ordering with the knowledge of other people's ordering habits
- · instant access to location of circulated books
- · shared cataloging
- · access to collection



# APPENDIX A. Demographic Characteristics Affecting Network Planning

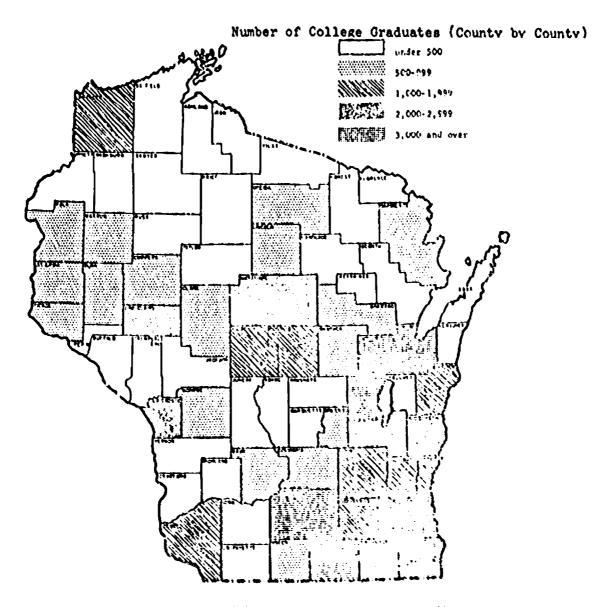


Figure 1--Number of College Graduates in Wisconsin Colleges According to U. S. Census for 1960.

\* Figures in this appendix are reproduced from Garrison, Guy. A Statewide Reference Network for Visconsin Libraries. Library Research Center, Library Research Center, Graduate School of Library Science, University of Illinois, 1964.



# Persons in Professional and Technical Occupations (County by County)

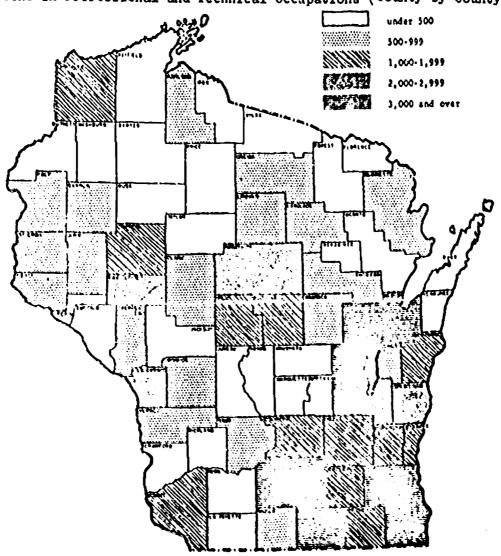
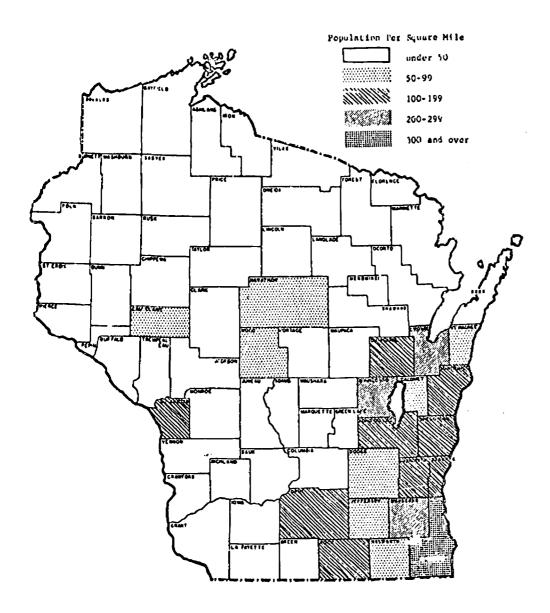


Figure 11--Number of Persons in Technical and Frofessional Occupations in Misconsin Counties According to U. S. Census for 1960.





Population Density per Square Mile in Wisconsin Counties According to U. S. Census for 1960.



# APPENDIX B

# HOLDINGS OF WISCONSIN LIBRARIES



# WISCONSIN PUBLIC LIBRARIES 1969 A STATISTICAL SUMMARY

| Population of Wisconsin (1960 census)                        | 3,952,765  |
|--|------------|
| served by public libraries                                   | 3,669,740  |
| served by library systems                                    | 2,752,805  |
| served by non-system libraries                               | 916,935    |
| unserved by public libraries                                 | 283,025    |
|  |            |
| Total number of public libraries                             | 332        |
| participating in locally financed systems                    | 199        |
| not participating in locally financed systems                | 133        |
| Number of bookmobiles operated in 1968                       | 22         |
| Total volumes held by Wisconsin public libraries             | 8,784,984  |
| Total public library book circulation                        | 22,088,910 |
| Number of professional (5th year degree) librarians employed | 257        |



<sup>\*</sup>All public library statistics taken from 1969 edition, "Wisconsin Public Libraries Service Record."

# STLECTED STATISTICS-PUBLIC LIBRARIES

|                   |                      |       |         | -, <del></del> |          | 4.5     |         |         |         | 1 1- <del>0 1</del> 4 |        |          |          |         |         |        | gelinidae bri Brasic | ******** |
|-------------------|----------------------|-------|---------|----------------|----------|---------|---------|---------|---------|-----------------------|--------|----------|----------|---------|---------|--------|----------------------|----------|
|                   | FILMS                | •     | 40      |                |          | 98      | 1       |         | 1       | 1                     |        | 1        | ı        | 105     | ~~~~    | 57     | 15                   |          |
| IALS              | AUDIO<br>UNITS       | 98    | 1,194   | 434            | 175      | 2,272   | 1       | ı       | 162     | 258                   | 243    | 1,007    | 153      | 12,802  | 2,898   | 169    | 808                  | ı        |
| LIBRARY MATERIALS | MICRO-<br>FILMS      | 1     | 1,196   | •              | 1        | 36      | i .     | 1       | 1       | ı                     | ı      | l .      | t        | 1,690   | 1       | ١      | 1,216                | 1        |
| OTHER 1           | SLIDES               | 1     | 823     | ı              | I        | ı       | ı       | ı       | ı       | •                     | 10     | ı        | ı        | m       | 1,995   | 1,480  | i                    | ı        |
|                   | PEKIODICALS          | 23    | 210     | 165            | 37       | 456     | 50      | 1       | 126     | 203                   | 116    | 366      | 89       | 1,679   | 609     | 96     | 273                  | 46       |
| BOOKS             | TOTAL                | 8,760 | 104,837 | 72,047         | 18,070   | 248,376 | 16,047  | 2,347   | 34,601  | 82,774                | 63,668 | 88,505   | 22,743   | 463,826 | 177,697 | 71,745 | 107,694              | 40,602   |
|                   | POPULATION<br>SERVED | 4,510 | 17,375  | 34,270         | 11,910   | 125,082 | 4,262   | 9,214   | 22,268  | 45,096                | 31,527 | 24,047   | 16,351   | 222,095 | 64,075  | 20,685 | 45,008               | 26,156   |
|                   | COUNTY               | ADAMS | ASHLAND | BAFRON         | BAYFIELD | BROWN   | BUFFALO | BURNETT | CALUMET | CHIPPEWA              | CLARK  | COLUMBIA | CRAWFORD | DANE    | DODGE   | DOOR   | DOUGLAS              | DUNN     |

# SELECTED STATISTICS-PUBLIC LIBRARIES

|             |                      | BOOKS   |             | OTHER  | LIBRARY MATERIALS | IALS           |          |
|-------------|----------------------|---------|-------------|--------|-------------------|----------------|----------|
| COUNTY      | POPULATION<br>SERVED | TOTAL   | PERIODICALS | SLIDES | MICRO-<br>FILMS   | AUDIO<br>UNITS | FILMS    |
| EAU CLAIRE  | 42,743               | 111,054 | 306         | 150    | 966               | 1,817          | 4        |
| FOND DU LAC | 45,482               | 168,585 | 425         | 97     | 199               | 2,003          | 2        |
| FOREST      | 7,542                | 33,378  | 156         | ı      | ı                 | ı              | ı        |
| GRANT       | 44,419               | 104,870 | 276         | ı      | i                 | 108            | ı        |
| GREEN       | 14,241               | 53,576  | 196         | ı      | ı                 | 100            | 1        |
| GREEN LAKE  | 15,418               | 51,077  | 97          | 36     | ı                 | 100            | ı        |
| IOWA        | 19,631               | 29,459  | 85          | 1      | ı                 | 350            | ı        |
| IRON        | 7,830                | 114,698 | 38          | 1      | ı                 | 141            | ı        |
| JACKSON     | 15,151               | 19,008  | 39          | ı      | ı                 | 212            | ı        |
| JEFFERSON   | 29,015               | 106,035 | 352         | ı      | l                 | 2,986          | ı        |
| JUNEAU      | 17,490               | 48,912  | 174         | 431    | ı                 | 865            | ı        |
| KENOSHA     | 88,903               | 193,502 | 242         | ı      | 22                | 4,274          | ļ        |
| KEWAUNEE    | 12,575               | 33,073  | 179         | 1,572  | 1                 | 397            | ı        |
| LA CROSSE   | 72,465               | 168,556 | 355         | 2,620  | 49                | 5,655          | 202      |
| LAFAYETTE   | 18,142               | 45,343  | 124         | ı      | ı                 | 473            | <b>,</b> |
| LANGLADE    | 19,916               | 46,369  | 79          | ı      | ı                 | ı              | ı        |
| LINCOLN     | 22,338               | 73,329  | 164         | 146    | •                 | 783            | п        |
|             |                      |         |             |        |                   |                |          |

# SELECTED STATISTICS-PUBLIC LIBRARIES

|           |                      | BOOKS     |             | OTHER 1 | OTHER LIBRARY MATERIALS | RIALS |       |
|-----------|----------------------|-----------|-------------|---------|-------------------------|-------|-------|
| COUNTY    | POPULATION<br>SERVED | TOTAL     | PERIODICALS | SLIDES  | MICRO-<br>FILMS         | AUDIO | FILMS |
| MANITOWOC | 75,215               | 169,364   | 571         | 527     | 1,257                   | 4,225 | 23    |
| MARATHON  | 88,764               | 227,059   | 735         | 5,599   | 45                      | 3,607 | 925   |
| MARINETTE | 34,660               | 114,093   | 240         | 1,110   | ı                       | 101   | ı     |
| MARQUETTE | 1,940                | 2,169     | 11          | ı       | ı                       | 1     | ı     |
| MENOMINEE | 2,606                | 6,169     | 39          | ı       | ı                       | ı     | ı     |
| MILWAUKEE | 1,036,041            | 2,470,267 | 1,189       | 100     | 781                     | 6,424 | 286   |
| MONROE    | 31,241               | 45,223    | 149         | ı       | ĺ                       | 125   | ı     |
| OCONFO    | 24,849               | 56,579    | 116         | 1,294   | 1                       | 186   | ı     |
| ONEIDA    | 22,112               | 49,219    | 194         | 435     | ı                       | 179   | l     |
| OUTAGAMIE | 68,632               | 194,736   | 553         | 456     | 97                      | 1,496 | ß     |
| OZAUKEE   | 30,217               | 63,603    | 275         | ı       | ı                       | 305   | 1     |
| PEPIN     | 7,332                | 16,235    | 28          | ı       | l                       | ı     | ı     |
| PIERCE    | 8,870                | 42,987    | 85          | ı       | ı                       | ı     | 1     |
| POLK      | 7,650                | 34,903    | 368         | ı       | ı                       | 571   | 1     |
| PORTAGE   | 36,964               | 57,009    | 249         | 40      | ı                       | 853   | ı     |
| PRICE     | 4,443                | 38,068    | 117         | ı       | •                       | 325   | ı     |
| RACINE    | 147,952              | 273,416   | 699         | 19      | 21                      | 6,150 | 513   |
|           |                      |           |             |         |                         |       |       |



SELECTED STATISTICS-PUBLIC LIBRARIES

|             |                      | BOOKS   |             | OTHER    | OTHER LIBRARY MATERIALS | RIALS          |       |
|-------------|----------------------|---------|-------------|----------|-------------------------|----------------|-------|
| COUNTY      | POPULATICN<br>SERVED | TOTAL   | PERIODICALS | STIDES   | MICRO-<br>FILMS         | AUDIO<br>UNITS | FILMS |
| RICHLAND    | 17,684               | 24,703  | 29          | 1        | 1                       | -              | ı     |
| ROCK        | 113,913              | 181,812 | 458         | ı        | ľ                       | 4,808          | 70    |
| RUSK        | 14,794               | 19,565  | 52          | ı        | ı                       | ı              | 1     |
| ST. CROIX   | 10,735               | 60,137  | 135         | ı        | ı                       | 237            | ı     |
| SAUK        | 37,167               | 102,597 | 434         | 55       | ı                       | 009            | ı     |
| SAWYER      | 9,475                | 13,169  | 32          | ı        | 1                       | 140            | ı     |
| SHAWANO     | 32,006               | 70,837  | 86          | 4,035    | ı                       | 3,767          | 40    |
| SHEBOYGAN   | 70,530               | 219,650 | 648         | 698      | 3,057                   | 3,978          | 613   |
| TAYLOR      | 17,843               | 26,020  | 64          | ı        | 1                       | 134            | ı     |
| TREMPFALFAU | 23,377               | 45,267  | 169         | <b>I</b> | <b>I</b>                | 220            | ı     |
| VERNON      | 25,663               | 296,367 | 125         | 1        | ŀ                       | 20             | ı     |
| VILAS       | 9,332                | 21,164  | 9           | <b>i</b> | 1                       | 365            | ı     |
| WALWORTH    | 52,368               | 126,865 | 574         | 1        | 156                     | 1,321          | ų.    |
| WASHBURN    | 10,301               | 169'51  | 35          | 1        | 1                       | 117            | ı     |
| WASHINGTON  | 29,770               | 79,093  | 283         | ı        | 88                      | 1,250          | ı     |
| WAUKESHA    | 148,617              | 297,657 | 1,324       | ı        | 109                     | 5,773          | 649   |
| WAUPACA     | 18,805               | 70,751  | 252         | l<br>    | 1                       | 962            | ı     |

# SELECTED STATISTICS-PUBLIC LIBRARIES

|                         | S                    |          | 92        | 20       | <br>  |
|-------------------------|----------------------|----------|-----------|----------|-------|
|                         | FILMS                | ı        | σ         | 8        |       |
|                         | S                    | 0        | 4         | 4        |       |
| ILALS                   | AUDIO                | 09       | 3,654     | 1,854    |       |
| MATER                   | - h                  |          |           | <u> </u> | _     |
| OTHER LIBRARY MATERIALS | MICRO-<br>FILMS      | 1        | 65        | 138      |       |
| OTHER                   | ស្ល                  |          |           |          | _     |
|                         | STIDES               | i        | ı         | 239      | <br>  |
|                         | CALS                 |          |           |          |       |
|                         | PERIODICALS          | 53       | 935       | 391      |       |
| S                       |                      | 956      | 178       | 128      | <br>_ |
| BOOKS                   | TOTAL                | 25,956   | 317,078   | 112,428  |       |
| <b>.</b>                | TION /               | 21       | <br>8:    | 20       | <br>_ |
|                         | POPULATION<br>SERVED | 13,497   | 107,928   | 59,105   | <br>_ |
|                         | <b>٢</b>             | RA       | AGO       |          | _     |
|                         | COUNTY               | WAUSHARA | WINNEBAGO | WOOD     |       |



# Library Growth 1968-1969 Public, 4-year Institutions\*

| Campus        | Holdings 1968 | Holdings 1969 | Net Gain |
|---------------|---------------|---------------|----------|
| Madison       | 2,012,329     | 2,159,947     | 147,618  |
| Milwaukee     | 375,432       | 440,045       | 64,613   |
| Green Bay     | 20,117        | 51,485        | 31,368   |
| Parkside      | 40,500        | 60,772        | 20,272   |
| Eau Claire    | 159,912       | 183,791       | 23,879   |
| La Crosse     | 168,180       | 183,163       | 14,983   |
| Oshkosh       | 224,200       | 250,566       | 26,356   |
| Platteville   | 144,471       | 153,787       | 9,316    |
| River Falls   | 129,463       | 155,556       | 26,093   |
| Stevens Point | 160,899       | 175,957       | 15,058   |
| Stout         | 86,207        | 95,750        | 9,543    |
| Superior      | 126,845       | 135,610       | 8,765    |
| Whitewater    | 181,927       | 210,000       | 28,073   |



<sup>\*</sup> Academic library statistics from Wisconsin CCHE Working Paper #106, September 1969, and supplements

# RECOMMENDED MINIMUM HOLDING GOALS-1980 PUBLIC, 4-YEAR INSTITUTIONS

| Madison       | 3,250,000 |
|---------------|-----------|
| Milwaukee     | 1,250,000 |
| Green Bay     | 300,000   |
| Parkside      | 300,000   |
| Eau Claire    | 550,000   |
| La Crosse     | 325,000   |
| Oshkosh       | 600,000   |
| Platteville   | 250,000   |
| River Falls   | 250,000   |
| Stevens Point | 350,000   |
| Stout         | 250,000   |
| Superior      | 300,000   |
| Whitewater    | 450,000   |



|                | Total  | Periodicals   | Serials   | Reference  | Reference Microfilm            | A V     | Enrollment                      | Faculty                                      | Volumes<br>Per<br>Student | Volumes<br>Per<br>Faculty |
|----------------|--|---------------|---|------------|--------------------------------|---------|---------------------------------|--|---------------------------|---------------------------|
| MSN            | 2,012,329                                    | 16,380        | 14,717  | 41,474     | 13,768                         | 532     | 33,000                          | 2,368  | 61/1                      | 850/1                     |
| UWM            | 358,987                                      | 3,659         | 8,903   | 15,000     | 13,363                         | 5,904   | 15,419                          | 882  | 23/1                      | 407/1                     |
| UWGB           | 20,117                                       | 780           | 20  | 2,000      | 4,000                          | 0       | i<br>I                          |  | i                         | ļ<br>                     |
| UWP            | 40,500                                       | 20            | 20  | 300        | 4,000                          | 0       | }                               |  |                           | <b>!</b>                  |
| 23             | 159,912                                      | 1,503         | 800   | 5,433      | 4,560                          | 5,376   | 6,296                           | 303  | 25/1                      | 528/1                     |
| rc<br>Si       | 168,180                                      | 2,007         | NA  | 5,422      | 3,643                          | NA      | 5,111                           | 311  | 33/1                      | 541/1                     |
| 0              | 224,200                                      | 1,613         | 474   | 21,735     | 2,136                          | 8,449   | 9,444                           | 625  | 24/1                      | 359/1                     |
| Д              | 144,471                                      | 1,286         | 953   | 10,501     | 7,355                          | 2,413   | 4,609                           | 285  | 31/1                      | 1//09                     |
| RF             | 129,463                                      | 1,238         | 228   | 4,900      | 1,891                          | 4,048   | 3,696                           | 250  | 35/1                      | 518/1                     |
| SP             | 160,899                                      | 1,488         | 650   | 8,814      | 3,838                          | 2,057   | 5,907                           | 396  | 1/12                      | 406/1                     |
| St             | 86,207                                       | 1,037         | 385   | 5,582      | 1,481                          | NA      | 3,859                           | 304  | 22/1                      | 284/1                     |
| Su             | 126,845                                      | 971           | 1,784   | 4,000      | 1,068                          | 1,653   | 3,028                           | 204  | 42/1                      | 622/1                     |
| *              | 181,927                                      | 1,484         | 644   | 6,618      | 3,321                          | 3,989   | 8,581                           | 583  | 21/1                      | 312/1                     |
| Explan         | Explanation of ab                            | abbreviations | of names:   |            |                                |         |                                 |  |                           |                           |
| MSN -<br>UWM - | - University<br>- University<br>- University | of            | Wisconsin-Madison<br>Wisconsin-Milwaukee<br>Wisconsin-Green Bay | φ .<br>α υ | O - Wisconsin<br>P - Wisconsin |         | State University of This series | University-Oshkosh<br>University-Platteville | osh<br>teville<br>r Falls |                           |
| UWP            | - University<br>- Wisconsin                  | 7 of<br>Stat  | Wisconsin-Parkside University                                   |            | 1 1                            | nsin St | •                               | sity-Stev                                    | ens Point                 | _                         |

| MSN   | ı | University of Wisconsin-Madison      | 0      | Wisconsin State University-Oshkosh      |
|-------|---|--------------------------------------|--------|---|
| CIMIN | ı | University of Wisconsin-Milwaukee    | I<br>A | Wisconsin State University-Platteville  |
| UWGB  | 1 | of Wisc                              | -      | Wisconsin State University-River Falls  |
| UWP   | ı | of Wisc                              | SP -   | Wisconsin State University-Stevens Poin |
| ည္ဆ   | ı | Wisconsin State University~EauClaire | St -   | Stout State University                  |
| ដ     | 1 | Wisconsin State University-La Crosse | Su -   | Wisconsin State University-Superior     |
|       |   |                                      | I<br>M | Wisconsin State University-Whitewater   |

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# VIA LIBRARY RESOURCES AND SUPPORT

|                         |          |                       |          |          | Dist. 10 | Dist. 10   | Dict. 11 | Dist. 11       |          |             |
|-------------------------|----------|-----------------------|----------|----------|----------|------------|----------|----------------|----------|-------------|
|                         | Mat. 4   | Mst. 6                | 7        | Dist. 8  | Fond du  | Beaver     | Manito-  | Sheboy-        | Dist. 12 | Dfst. 12    |
| •                       | Madison  | Madison Kenosha Racin | أبه      | Waukesha | Lac      | Dam        | VOC      | 8an            | Appleton | Oshkosh     |
| Volumes                 | 12,941   | 5,328                 | 3,007    | 3,032    | 5,800    | 250        | 1,889    | 1,569          | 1,306    | 2.129       |
| Volumes Added           | 6,452    | 1                     | 116      | 781      | 1,200    | 20         | 117      | 273            | 94       | <b>62</b> 7 |
| Volumes Withdrawn       | 174      | ŀ                     | 1        | ł        | 100      | 20         | 9        | ∞              | i        | 3           |
| A-V Media               |          |                       |          |          |          |            |          |                |          |             |
| Tapes                   | 88       | 15                    | ļ        | 1        | i        | 9          | 35       | 45             | 311      | 1           |
| Pfins                   | 25       | 415                   | 1        | 1        | 300      | <b>1</b> 6 | I        | 250            | 231      | I           |
| Slides                  | 9        | 1,200                 | 1        | ŀ        | S        | 100        | 110      | I              | 1        | 1           |
| Transparencies          | 1,250    | 250                   | 1        | I        | 23       | 'n         | 100      | ł              | 70       | 1           |
| Video Tapes             | 8        | 19                    | 1        | t        | 1        | ı          | ł        | 1              | ŀ        | t           |
| Records                 | 8        | 45                    | i        | I        | 1        | 'n         | 20       | 1              | 27       | 91          |
| Mcrofilm                | 470      | 1                     | I        | ŀ        | 200      | 1          | i        | I              | ł        | ł           |
| Serials/Feriodicals     |          | 254                   | 147      | 65       | 130      | 8          | 72       | 163            | 142      | 62          |
| Newspapers              |          | 11                    | က        | ដ        | ଛ        | 4          | m        | 77             | m        | _           |
| Pamphlets               |          | 9                     | 1,000    | 88       | 200      | 9          | 222      | 200            | 8        | 200         |
| Staff                   |          |                       | •        |          |          |            |          |                |          |             |
| F.T. Cert. Lib. (Bach)  | 1        | 1                     | 1        | 1        | I        | ļ          | 1        | <b>ન</b>       | ١        | Ħ           |
| F.T. Cert. Lib. (5 Yr.) | <b>H</b> | H                     | -        | Į        | rd       | 1          | 1        | 1              | 1        | ļ           |
| P.T. Cert. Lib.         | 7        | <b>-</b> -1           | l        | H        | I        | 1          | <b>ન</b> | ı              | H        | 1           |
| Student Assist.         | 10       | 1                     | M        | 8        | **       | 1          | 1        | 4              | 7        | m           |
| Library Clerk           | m        | 7                     | <b>-</b> | 1        | ı        | <b>-</b>   | 1        | H              | 1        | 1           |
| Budget                  | 25,000   | Unknown               | 13,842   | 000.9    | 13,600   | 9,222      | 2,100    | 2,000          | 3,500    | 6,500       |
| Books                   | 702      | 7,390                 | 5,000    | 9        | 3,000    | 2,500      | 1,300    | 000 <b>.</b> 7 | 1        | s,000       |
| Non-Books               | 30%      | 2,000                 | 009      | 1        | 9,600    | 2,500      | 200      | 1,000          | <b>8</b> | 2,500       |
| Year Library Opened     | 1964     | 1965                  | 1962     | 1963     | 1965     | 1967       | 1965     | 1966           | 1951     | 1966        |
| <b>Pacilities</b>       |          |                       |          |          |          |            |          |                |          |             |
| Total Sq. Footage       | 2,570    | 9,000                 | 2,739    | 1,630    | 2,444    | 240        | 840      | 816            | 936      | 160°1       |

TA LISBART RESOURCES AND SUPPORT (Continued)

|                                 | Dist. 13<br>Green | Dist. 15<br>Temain | Reloft | Zen<br>Clatre | Le       | M lyankee | Rice Lake  | Stevens | Simerfor | West     |
|---------------------------------|-------------------|--------------------|--------|---------------|----------|-----------|------------|---------|----------|----------|
|                                 |                   |                    |        |               |          |           |            |         | 2022     |          |
| Volumes                         | 3,401             | 5,100              | 2,048  | 5,526         | 3,110    | 26,030    | 1,904      | 814     |          |          |
| Volumes Added                   | 733               | 1,295              | 694    | 109           | 011,1    | 3,340     | 877        | 53      | I        | 1        |
| Volumes Withdrawn               | 8                 | 1                  | %      | m             | 8        | 1,558     | 45         | l       | ł        | 1        |
| A-V Media                       |                   |                    |        |               |          |           |            |         |          |          |
| Lapes                           | 1                 | ጸ                  | l      | 331           | l        | 1         | ន          | 83      | 1        | 1        |
| Thine                           | l                 | 5                  | 1      | ដ             | t        | . 1       | 9          | ∞       | 1        | 1        |
| \$11des                         | !                 | 002                | ١      | 1,155         | l        | Į         | ጸ          | ያ       | 1        | i        |
| Transparencias                  | 1                 | 8                  | 1      | 450           | l        |           | <b>007</b> | 50      | 1        | 1        |
| Video Tapes                     | 1                 | 1                  | 1      | t             | l        |           | 1          | ţ       | 1        | 1        |
| Records                         | 1                 | \$                 | 1      | 317           | 1        |           | ង          | 2       | 1        | IJ       |
| Mcrofilm                        | ļ                 | l                  | l      | l             | l        |           | 1          | ţ       | İ        | 1        |
| Seriale/Periodicals             | 125               | 23                 | ង      | <b>5</b> 997  | 223      |           | 11         | 24      | 103      | ł        |
| Menspapers                      | 'n                | 2                  | 4      | 9             | 2        |           | 'n         | 7       | 23       | 1        |
| Pamphlets.                      | 386               | 8                  | ١      | 343           | 200      |           | 8          | Į       | 267      | ł        |
| Staff                           |                   |                    |        |               |          |           |            |         |          |          |
| F.T. Cert. Lib. (Bach)          | r (               | ı                  | 1      | <b>H</b>      | <b>H</b> |           | 1          | l       | H        | i        |
| 7.7. Cert. Lib. (5 Tr)          | 1                 | ~                  | 1      | 1             | ŧ        |           | 1          | 1       | 1        | 1        |
| F.T. Cert. 14b.                 | ı                 | 1                  | H      | 1             | H        |           | <b>.</b> 4 | l       | 1        | <b>ન</b> |
| Student Assist.                 | I                 | ^                  | 1      | ∞             | 8        |           | 7          | l       | 7        | I        |
| Library Clerk                   | +                 | l                  | -      | •             | 1        |           | H          | 1       | }        | l        |
| Budget                          | 7,250             | 20,300             | 5,000  | 24,738        | 7,900    |           | 1,480      | l       | 1        | 1        |
| Books                           | 350               | 8,000              | 1,850  | 22,992        | 9,000    |           | 1,000      | l       | 3,000    | 3,100    |
| Mon-Bonks                       | 1,700             | 2,000              | 250    | 1,746         | 7,200    |           | 335        | 1       | 1        | 8        |
| Test Library Opened             | 1966              |                    | 1927   | 1966          | 1966     | 1918      | 1965       | ŧ       | 1965     | ı        |
| Pacificies<br>Total Sq. Pootage | 1,200             | 2,400              | 1,25   | 10,000        | 2,120    | 9,546     | 1,890      | l       | 1,012    | ١        |
|                                 |                   |                    |        |               |          |           |            |         |          |          |

# PRIVATE COLLEGES AND UNIVERSITIES HOLDINGS 1967-68

|              | Total<br>Volumes | Periodicals Serials | Serials | Reference Microfilm | Microfilm | A ~ V<br>Collection E | Enrollment | Faculty | Volumes<br>per<br>Student | Volumes<br>per<br>Faculty |
|--------------|------------------|---------------------|---------|---------------------|-----------|-----------------------|------------|---------|---------------------------|---------------------------|
| Marquette    | 435,005          | 6,028               | 3,055   | 21,250              | 11,485    | NA                    | 11,322     | 1,631   | 38/1                      | 1/192                     |
| Alverno      | 71,580           | 160                 | 100     | 3,500               | 186       | NA                    | 1,391      | 118     | 51/1                      | 1//09                     |
| Beloit       | 210,000          | 650                 | M.A.    | NA                  | NA        | NA                    | 1,563      | NA      | 134/1                     | NA                        |
| Cardinal S.  | 40,605           | 415                 | 530     | 2,348               | <b>69</b> | 1,346                 | 444        | 55      | 1/16                      | 638/1                     |
| Carroll      | 38,111           | 485                 | 1,275   | 3,000               | 837       | KN                    | 1,092      | 88      | 81/1                      | 1/1001                    |
| Dominican    | 34,400           | 409                 | 28      | 2,687               | 306       | 883                   | 638        | 28      | 54/1                      | 593/1                     |
| Edgewood     | 40,420           | 384                 | 485     | 2,873               | 172       | NA<br>A               | 777        | 66      | 52/1                      | 612/1                     |
| Holy Family  | 40,264           | 234                 | 4       | 4,977               | 13        | 3,304                 | 295        | 49      | 72/1                      | 822/1                     |
| Maxian       | 37,879           | 325                 | 375     | 1,965               | 411       | 2,814                 | 716        | 48      | 53/1                      | 1/68/                     |
| Mount Mary   | 76,487           | 543                 | 75      | 3,200               | 854       | 3,571                 | 948        | 98      | 81/1                      | 1/688                     |
| Mt. St. Paul | 25,523           | 362                 | 42      | 2,000               | 909       | 2,300                 | 195        | 23      | 131/1                     | 1/0111                    |
| Northland    | 40,918           | 437                 | N.A.    | 1,200               | 511       | 2,163                 | 764        | 29      | 54/1                      | 611/1                     |
| Ripon        | 84,104           | 471                 | 20      | 3,500               | 360'T     | NA                    | 975        | 76      | 1/98                      | 1/2011                    |
| St. Norbert  | 61,191           | 739                 | 170     | AN                  | 8,674     | NA                    | 1,561      | 131     | 39/1                      | 469/1                     |

Note: Information for private schools includes only those that responded to the CCHE survey.



## STATE LIBRARIES

The <u>Service Record</u> presents this picture of the <u>Peference</u> and <u>Loan Library in 1969:</u>

### Books:

Total volumes - 115,747

Titles added, 1969 - 6,442

Volumes added, 1969 - 7,654

Total circulation - 43,225

# Other Library Materials:

Periodicals, titles currently received - 598

Microfilms - 2,131

Audio units - 3,548

Films - The Division acts as administrator of the Wisconsin Library Film Circuit, a nonprofit public library film cooperative of 1200 titles.



The Directory of Special Libraries and Information Centers is a convenient source of statistics on the holdings of the remaining major state supported libraries.

Legislative Reference Bureau:

Holdings - 150,000 volumes, including a great number of unbound volumes of clippings

Subscriptions - 200 journals

Special collections - Wisconsin session laws, statutes, legislative journals and Supreme Court reports since 1840; Blue Books since 1858; bound volumes of legi lative bills since 1897; state documents

# State Historical Society:

Holdings - 350,000 books and bound periodical volumes

- 35,000 volumes of newspapers
- 340,000 pamphlets
- 50,000 reels of microfilm
- 125,000 microcards
- 3,500,000 manuscripts
- 15,000 cu.ft. of Wisconsin State Archives
- 250,000 pictures

Subscriptions - 1000 journals

- 315 newspapers

Special collections - Early Northwest; labor history; agricultural history

## State Law Library:

Holdings - 100,000 volumes



## SCHOOL LIBRARIES\*

|  | Senior<br>High Schools | Junior<br>High Schools | Elementary<br>Schools |
|--|------------------------|------------------------|-----------------------|
| Total no. of Schools                   | 430                    | 183                    | 1,944                 |
| No. schools with centralized libraries | 430                    | 168                    | 606                   |
| Total no. of students                  | 248,817                | 108,900                | 532,719               |
| No. of students with library services  | 248,817                | 105,580                | 262,441               |

| Senior High Sch | ools 12% |
|-----------------|----------|
| Junior High Sch | 16%      |
| Elementary Scho | ools 20% |

School libraries with collections meeting at least minimum state standards (in 1960)



<sup>\*</sup>School statistics from Robert Little's "Status of School Library Resources in Wisconsin" (1967).

### SPECIAL LIBRARIES\*

| Region     |       | No. of Special Libraries |
|------------|-------|--------------------------|
| Superior   |       | o                        |
| Wausau     |       | 8                        |
| Eau Claire |       | 1                        |
| La Crosse  |       | 3                        |
| Fox Valley |       | 16                       |
| Madison    |       | 16                       |
| Southeast  |       | <u>53</u>                |
|            | TOTAL | 97                       |

Distribution of special libraries by region

(Garrison notes that nearly all the special libraries have small collections, mostly less than 30,000 volumes)



<sup>\*</sup>From Garrison's "A Statewide Reference Network for Wisconsin Libraries" (1964)

### APPENDIX C

## WISCONSIN LIBRARY LAWS

That portion of the Wisconsin State Code of interest to a study of library system formation is Chapter 43, titled "Libraries, Museums, Civic and Community Centers, and Special Uses of Municipal Buildings." The sections of specific interest are the following.

43.09 Library developments; purpose.

"There shall be a program administered through the Department of Public Instruction . . . for the extension and improvement of library services throughout the State." Objectives: (1) organization, improvement and coordination of public and school library services on a statewide basis; (2) encouragement of local governments and public library boards to cooperate with other local governments to provide more comprehensive library systems; and (3) encouragement of coordination of public and school library services with other library programs of educational agencies.

43.11 Advisory Council on Library Development

"For the purposes of co-ordinating library services and increasing public understanding of,
and formulating plans extending library services."



43.23 Library exchanges

Exchanges and loans of (1) school books between libraries of different school districts, and (2) of books between free public libraries and school districts.

43.30 Library extension and interchange
Gives municipalities the right to make agreements concerning (1) the use of the library to
non-residents of the municipality or exchange of
books between municipalities; and (3) the levy
of sums between municipalities to defray the
expenses of (1) and (2).

43.33 County system of libraries

"The county board of any county having a population of 150,000 or more may ... establish and maintain a public library system for such county ..." and proportion money from participating municipalities.

In conjunction with the Wisconsin State Code, the State of Wisconsin 1969 Senate Bill 363 and the Senate Amendment to 1969 Senate Bill 363 must be considered, for these revise and recodify sections of the State code pertinent to public and school libraries.

There are three major new provisions in the 1969 Senate Bill 363. These allow:

(1) County board supervisors to appoint a county planning committee on public library services



"to investigate the potential of a public library system for a county or multi-county library system and submit a plan for library development to the Division for Library Services."

- (2) The establishment of public library systems "to provide services to a single county or 2 or more contiguous counties." It provides for two types of systems; (a) <a href="federated system">federated system</a> "contemplates the participating libraries, villages, towns, cities or counties entering into written agreements for public and supporting services to be rendered by a designated headquarters library or other members of the system."
  - (b) consolidated system "public libraries or local or country governments of one or more counties form a single library governed by a library system board."
- (3) The initiation of a series of grants in-aid

  "to promote the organization and raise the quality of State libraries."

The Senate Amendment to 1969 Senate Bill 363 primarily contains provisions for the vesting of powers with the boards of single county consolidated and federated public library systems and with multicounty public library systems. Briefly, single



county consolidated system boards will continue to function as county agencies, and both consolidated and federated boards will be bested with the powers given to library boards under Chapter 43 of the Wisconsin State Code.

Multicounty public library systems are to be considered "independent public bodies," with their boards having the power to control the investment, management, and expenditure of all system money and to control its own operation; to contract for purchase materials, sites, and services; and to appoint and assign duties to personnel.

Other revisions to Senate Bill 363 have been recommended by the Wisconsin Library Law Revision Committee of the Legislative Council.



APPENDIX D
Summary Listing of Machine-Readable Data Bases

| Legend:  G = governmental P = professional C = commercial U = educational  Source | Type of<br>Source | Data Base Used<br>for Publication<br>Purposes | Data Base Used to<br>Offer Information<br>Services | Data Bases<br>Distributed | Computer Programs<br>Offered with the<br>Data Base | Cost<br>(F=free,C=charge) | Distribution<br>(L=limited,<br>U=unlimited,<br>T=internal only) |
|---|-------------------|---|--|---------------------------|--|---------------------------|---|
| Air Force Accounting (LITE)   | G                 |   |  | ×                         | ×  | С                         | U   |
| American Chemical Society (J. of Chem. Doc.)                                      | P                 | ×   |  |                           |  | С                         | υ   |
| American Geological Institute   | P                 | ×   |  | ×                         |  | С                         | U   |
| American Institute of Physics   | P                 | х   | ×  | x                         |  | С                         | บ   |
| American Petroleum Institute  | P                 | <u> </u>                                      |  | х                         |  | С                         | U   |
| American Society for Metals   | P                 | x   | x  | x                         | ×  | С                         | L   |
| Applied Mechanics Review  | P                 | x   |  |                           |  |                           |   |
| AEC (Atomic Molecular Proc.<br>Info. Center)                                      | G                 |   | x  |                           |  | F                         | L_  |
| AEC (Nuclear Science Abstracts)   | G                 | ×   | х  | ×                         |  |                           | L   |
| Biosciences Information Service   | P                 | ×   |  |                           |  | С                         | U   |
| Bonneville Power Administration   | G                 |   | ×  |                           |  |                           |   |
| R. R. Bowker Co.  | С                 | x   |  | х                         |  | С                         | υ   |
| British National Bibliography   | C-G               |   |  | х                         |  | F                         | L   |
| Bro Dart, Inc.  | С                 | х   |  |                           |  | E                         | 1   |
| Bureau of Census  | G                 |   |  | ×                         |  | С                         | υ   |
| Chemical Abstracts Service  | P                 | x   |  | x_                        | ×  | c_                        | υ   |
| Clearinghouse for Federal, Scientific & Technical Information                     | G                 | x   |  | ×                         |  | <u> </u>                  | υ   |



|  | _                 |   |  |                           |  |                            |                                       |
|--|-------------------|---|--|---------------------------|--|----------------------------|---------------------------------------|
| Source   | Type of<br>Source | Data Base Used<br>for Publication<br>Purposes | Data Base Used to<br>Offer Information<br>Services | Data Bases<br>Distributed | Computer Programs<br>Offered with the<br>Data Base | Cost<br>(F=free, C=charge) | Distribution (L=limited, U=unlimited, |
| Computer Software Management & Information Center (COSMIC)             | U-G               |   |  | (small)<br>X              | x  | С                          | U                                     |
| Educational Research Information Center (ERIC)                         | U~G               | ×   | ×  | ×                         |  | С                          | <u>L</u>                              |
| Electronics Properties Information Center (EPIC)                       | G                 |   | ×  | x                         | ×  | С                          | L                                     |
| Engineering Index  | P                 | ×   | ·  | ×                         | ×  | С                          | ט                                     |
| Engineers Joint Council  | P                 |   |  | x_                        | ×  | c                          | บ                                     |
| Frost & Sullivan, Inc.   | С                 |   |  | х                         | ×  | С                          | U                                     |
| G. E. Flight Propulsion Division                                       | С                 |   | х  | ×                         |  |                            | 1                                     |
| Health Law Center  | U                 |   |  | _ x                       |  |                            |                                       |
| Institute for Scientific Information                                   | C_                | x_  |  | ×                         | ×  | С                          | υ                                     |
| International Treaty Information System (University of Washington)     | ט                 | X   | x  |                           |  |                            |                                       |
| Library of CongressProject MARC  | G                 |   |  | ×                         | ×  | С                          | υ                                     |
| Library of CongressProject<br>RECON                                    | G                 | <u> </u>                                      | ,  |                           |  |                            |                                       |
| Library of CongressSubject<br>Headings                                 | G                 | хх  |  | _ x                       |  | С                          | υ                                     |
| L A County Public Library  | G                 | x   |  | ×                         |  | С                          | U                                     |
| Medical Library Center of New York (union catalog of medical journals) | G                 | х   |  | ×                         | x  | F                          | L                                     |



|  |                   |   |  | ·                         |  |                            | ·   |
|--|-------------------|---|--|---------------------------|--|----------------------------|---|
| Source   | Type of<br>Source | Data Base Used<br>for Publication<br>Purposes | Data Base Used to<br>Offer Information<br>Services | Data Bases<br>Distributed | Computer Programs<br>Offered with the<br>Data Base | Cost<br>(F=free, C=charge) | Distribution<br>(L=limited,<br>U=unlimited,<br>I=internal only) |
| National Aeronautics & Space<br>Association (NASA)               | G                 | x   |  | ×                         | x  | F                          | L   |
| National Bureau of Standards<br>(Network of Data Centers)        | G                 | x   |  |                           |  | F                          | L   |
| National Library of Medicine<br>MEDLARS                          | G_                | x   |  | x                         |  | F                          | L   |
| National Weather Records Center                                  | G                 |   |  | x                         |  | С                          | U   |
| New York Times   | С                 | x   |  |                           |  |                            | L   |
| Office of Indian Lands Research                                  | G                 |   |  | x                         |  |                            | L   |
| Ontario New University Library Project (ONULP)                   | U                 | x   |  |                           |  |                            |   |
| PANDEX   | С                 | x   |  | х                         | x  | С                          | บ   |
| RAND CorporationLinquistics Department                           | G-C               | x   |  | <u>x</u>                  |  | F                          | L   |
| Science Information Exchange                                     | G                 |   | х  |                           |  |                            |   |
| Share Research Corp.   | С                 |   | x  | x_                        | х  | С                          | ַ ָ   |
| Standard Statistics Corp., Inc. (Stock data)                     | С                 |   |  | x                         |  | <u> </u>                   | ַ ט   |
| Stanford UniversityUndergraduate<br>Catalog                      | ט                 | x   |  | ×                         |  | С                          | L   |
| University Microfilms Library<br>Services (DATKIX)               | С                 | x   | x  |                           |  | C                          | บ   |
| UCLA "POLCEN" (a Xerox service) Department of Political Science) | ט                 |   |  | ×                         |  |                            | L   |
| USCMcGraw Hill (NICEM)   | U-C               | x   |  | ×                         |  |                            | I   |



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